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1959 Performance of COMMERCIAL CORN HYBRIDS in Illinois

By Earl R. Leng
G. L. Ross



Location of 1959 test fields

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PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1959

By EARL R. LENG and G. L. Ross¹

INCREASED CORN ACREAGE and generally favorable growing conditions caused the 1959 Illinois corn crop to be the largest in the state's history. Official estimates placed total production of corn at more than 670 million bushels, almost 80 million bushels above the previous high set in 1958. The average yield was estimated at 67 bushels per acre, 2 bushels below the record high average set in 1958.²

PLAN OF THE TESTS

Number of hybrids and their sources. In 1959, 523 hybrids were grown in seventeen major tests at ten locations in the state. Fifty-five companies and individuals, as well as the Illinois Agricultural Experiment Station, furnished seed for the tests.

Test fields were located at the same places as in 1957 and 1958. However, in addition to tests of normal hybrids at "regular" planting rates, two new test groups were introduced. These were tests of dwarf corn hybrids, at four locations, and of normal hybrids at increased planting rates, conducted at three test locations. A summary of general information on the tests is presented in Table 1.

Representatives of the Illinois Station or of the Illinois Crop Improvement Association collected seed for planting the test fields. Seed was obtained directly from warehouses or seed supplies of the producers entering the respective hybrids. Seed of certain open-pedigreed hybrids was furnished by the Illinois Station.

Selection of entries. Each year producers of hybrid seed corn are given an opportunity to nominate hybrids for testing in the various performance trials. A fee is charged for testing the hybrids nominated. For the past several years, all hybrids nominated by the closing date for entries have been accepted and tested in the performance test plots.

Occasionally experimental hybrids are nominated by commercial seed firms for inclusion in the performance testing program. These

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²Estimates of yield for the state were furnished by the Illinois Cooperative Crop Reporting Service, Illinois State Department of Agriculture, cooperating with the U. S. Department of Agriculture.

Table 1.—GENERAL INFORMATION: Illinois Commercial Hybrid Corn Tests, 1959

Field, county, location, and number of entries	Date planted	Date harvested	Average acre yield	Mois- ture in grain	Erect plants	Stand	Dropped ears
Normal hybrids, regular planting rate							
			<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Woodstock: McHenry, Ex. N, 72	May 16	Nov. 12	103.0	21.8	43	94	...
DeKalb: DeKalb, N, 121.....	May 14	Nov. 3	106.5	23.8	91	94	1.0
Galesburg: Knox, WNC, 132...	May 7	Oct. 17	112.8	21.1	79	88	...
Ashkum: Iroquois, ENC, 110...	May 25	Oct. 22	89.1	22.0	95	82	...
Bowen: Hancock, WC, 90.....	May 26	Oct. 15	90.2	23.8	88	89	.8
Stanford: McLean, C, 100.....	May 5	Oct. 10-12	112.6	21.5	93	94	1.1
Urbana: Champaign, EC, 121...	May 19	Oct. 27	101.7	22.7	94	87	1.4
Greenfield: Macoupin, WSC, 72.	May 9	Oct. 20	94.7	19.0	70	93	...
Brownstown: Fayette, S, 81....	June 4	Oct. 31	81.7	23.8	92	92	1.2
Wolf Lake: Union, Ex. S, 56....	May 11	Oct. 1	84.0	20.2	89	90	...
Normal hybrids, increased planting rate							
DeKalb: DeKalb, N, 56.....	May 14	Nov. 3	97.6	23.6	85	91	...
Urbana: Champaign, EC, 72....	May 19	Oct. 27	89.2	21.0	90	84	.8
Greenfield: Macoupin, WSC, 49.	May 9	Oct. 20	100.5	19.2	54	88	...
Dwarf hybrids							
DeKalb: DeKalb, N, 25.....	May 14	Nov. 3	90.5	24.5	100	93	...
Urbana: Champaign, EC, 25....	May 19	Oct. 27	70.7	24.0	99	90	.6
Greenfield: Macoupin, WSC, 25.	May 9	Oct. 20	69.2	19.3	88	94	...
Brownstown: Fayette, S, 25....	June 4	Oct. 31	68.1	24.4	99	95	.8

COOPERATORS: EARL HUGHES, *McHenry county*; RALPH ANDERSON and RALPH HAWTHORNE, *Knox county*; D. L. PETERSON, *Iroquois county*; ELDON GOLDEN, *Hancock county*; ROBERT BUTH, *McLean county*; CHARLES ROSS, *Macoupin county*; EARL SCHWARM and H. O. LEWIS, *Fayette county*; SHAWNEE HIGH SCHOOL, *Union county*. Tests in *DeKalb* and *Champaign counties* were located on University of Illinois farms managed by R. E. BELL and C. H. FARNHAM. P. E. JOHNSON, Assistant Professor of Soil Fertility, supervised field operations on the test in *Fayette county*, and D. R. BROWNING supervised field operations on the *Union county* test field.

have been accepted and tested in the same manner as commercially available hybrids. Experimental hybrids and standard open-pedigreed hybrids produced by the Illinois Station also are included in certain of the tests. The performance of additional experimental hybrids in 1959 and preceding years is reported in Illinois Bulletin 652.

Soil characteristics of fields. The test fields usually are medium to high in productivity, and each is chosen to represent a soil type common to the region where it is located. Insofar as possible, each field is selected for uniformity in soil type, productivity, and drainage. Approximate locations of test fields are shown on the map on the cover. Soil characteristics and management are described in Table 2.

Field-plot design. The experimental designs used were randomized blocks, lattice squares, or lattice designs of the appropriate size, with three replications each. Data were recorded on mark-sense cards and were processed by a combination of procedures on IBM equipment and the Illiac digital computer.

Method of planting. All test fields were planted by hand on land prepared in the normal way for corn. All test plots except those

at DeKalb, Urbana, and Brownstown were part of larger cornfields and were surrounded by farmers' corn. Individual plots consisted of one row, ten hill-spaces long. Planting simulated "power checking," with one, two, or three kernels being dropped each 20 inches, depending on the planting rate desired. Planting rates of 12,000 plants per acre were used at Brownstown and Wolf Lake and in the "regular rate" test at Greenfield. The planting rate at Woodstock, Galesburg, Ashkum, Bowen, and Stanford and in the "regular rate" tests at DeKalb and Urbana was 16,000 plants per acre. For the "increased planting rate" tests, the rates were 24,000 per acre at DeKalb and Urbana, and 20,000 at Greenfield. The plots were not thinned.

Table 2. — TEST FIELDS: Soil Characteristics, Management Practices, and Rainfall in 1959

Soil type	Lime require- ment	Available phosphorus	Available potassium	Previous crops and rainfall
	<i>tons</i>			
Proctor silt loam	0	High	High	Extreme Northern: Woodstock Alfalfa 1958; alfalfa 1957; oats and alfalfa 1956. Rainfall (inches): May 3.44; June 1.92; July 6.11; August 4.30.
Flanagan silt loam	0	High	High	Northern: DeKalb Corn 1958; clover 1957; oats and clover 1956. Rainfall (inches): May 2.86; June 2.38; July 5.61; August 3.33.
Sable silty clay loam	0	Medium	High	West North-Central: Galesburg Alfalfa 1958; oats 1957; corn 1956. Rainfall (inches): May 3.60; June 2.57; July 3.39; August 1.87.
Pella clay loam	2	High	High	East North-Central: Ashkum Corn 1958; alfalfa 1957; oats 1956. Rainfall (inches): May 8.85; June 0.69; July 5.30; August 1.72.
Viriden silty clay loam	0	High	High	West-Central: Bowen Alfalfa 1958; alfalfa 1957; wheat 1956. Rainfall (inches): May 5.07; June 0.67; July 1.96; August 5.89.
Muscatine silt loam	1	High	High	Central: Stanford Corn 1958; alfalfa 1957; oats and alfalfa 1956. Rainfall (inches): May 4.35; June 1.14; July 1.75; August 2.71.
Brenton silt loam	0	Medium	High	East-Central: Urbana Alfalfa 1958; alfalfa 1957; corn 1956. Rainfall (inches): May 6.56; June 1.09; July 1.54; August 2.44.
Herrick silt loam	1	High	Medium	West South-Central: Greenfield Alfalfa 1958; alfalfa 1957; oats 1956. Rainfall (inches): May 4.91; June 0.07; July 2.64; August 7.91.
Cisne silt loam	2	High	High	Southern: Brownstown Oats and clover 1958; corn 1957; oats and clover 1956. Rainfall (inches): May 4.02; June 0.98; July 1.44; August 5.97.
Riley fine sandy loam	0	High	High	Extreme Southern: Wolf Lake Corn 1958; corn 1957; corn 1956. Rainfall (inches): May 5.88; June 3.62; July 2.53; August 9.37.

Method of harvest. All plots were mechanically harvested with a slightly modified Ford one-row picker-sheller. The shelled corn from each plot was collected in a bag, weighed, and sampled for moisture percentage. No attempt was made to glean missed or dropped ears or to estimate the shelled corn lost in the harvesting operations.

GROWING CONDITIONS

The 1959 growing season was exceptionally favorable in northern Illinois, except for certain localities where storm damage and excessive moisture late in the season retarded harvesting operations. Elsewhere in the state, conditions were variable, with severe drouth prevailing in much of central and east-central Illinois during June and July. Planting proceeded in a timely fashion in most areas of the state during the first two weeks of May. Heavy rains in mid-May slowed planting operations in some areas, but the bulk of the crop was planted on time in favorable seedbeds. Moisture and temperature conditions in the northern third of the state, in the area west of the Illinois River, and in extreme southern Illinois favored rapid development of the crop in June and July. In central and eastern Illinois, however, virtually no rain fell between June 10 and late July. Development of the crop in these areas was hampered by the resulting moisture shortage. August was a warm, humid month throughout the state, favoring development of the crop, but also providing favorable conditions for the development of *Helminthosporium* leaf blight and certain stalk rot diseases. A severe epidemic of leaf blight developed in the southernmost counties and also in western and northwestern Illinois. Fortunately the corn crop was well along in its development by the time leaf blight became widespread, and actual reduction in yield was not severe. Maturity of the crop was satisfactory in most areas, and harvesting operations were completed in timely fashion in the southern two-thirds of the state. As noted above, storm damage and heavy rainfalls slowed harvesting in northern Illinois, and substantial acreages remained unharvested as late as November 20.

Seedbeds for the performance tests were generally favorable for planting, except at Ashkum, where the plots were planted in wet soil. Three fields, Ashkum, Bowen, and Brownstown, were planted somewhat later than the optimum planting date for these localities. Stands obtained were good to excellent, except at Ashkum.

Growing conditions were generally favorable, except at Ashkum and Urbana, where the midsummer drouth conditions reduced yield

prospects considerably. The Urbana test field was the most severely injured by the moisture shortage.

Maturity was satisfactory on all test fields, and harvesting operations were completed successfully and in good time at all locations except Woodstock. Unfavorable weather, wet soil, and severe lodging on the latter field delayed harvesting until mid-November, and resulted in harvest losses higher than might otherwise have been experienced.

Lodging was low to moderate at most test locations, but was severe at Greenfield and very severe at Woodstock. For the second consecutive year, more than half the plants in the Woodstock test were lodged at harvest.

MEASURING PERFORMANCE

The entries of the 1959 tests are listed in the tables in alphabetical order. It is hoped that this arrangement will reduce the emphasis often placed on yield alone, and that it will call attention to the importance of more than a single year's observations.

Yield of grain. In all tests the total acre-yield was calculated as shelled corn containing 15.5 percent moisture, the upper limit allowable for No. 2 corn. Shelled-corn weight and moisture percentage were determined for each plot of each hybrid.¹

Erect plants. The count of erect plants in each plot of each hybrid was taken at the time of harvest of the respective test field. Plants leaning at an angle of 45° or more or broken below the ear were considered lodged. Plants broken only above the ear were considered to be erect.

Stand. A count was made in late summer at all fields of the number of missing plants in each plot of each entry. The percent stand was computed by comparing the actual number of plants in each plot with the number that would have been present if all kernels planted had produced mature plants. Stand differences may have been caused by failure of germination or by disease, insect damage, or cultivation injury.

The following should be kept in mind when comparing the performance of hybrids on any one field:

1. Tests covering several years (see first part of data tables) give more reliable results than those covering only one year. Therefore

¹ All moisture determinations were made with a Radson moisture tester.

special attention should be given to the summaries covering three or five years' results. However, the fact that a hybrid does not appear in the summaries should not be overemphasized, since its absence may mean that 1959 was the first year in which it was tested or that it missed only one year of the series.

2. Small differences, especially in a single year's test, do not necessarily indicate that one hybrid is truly superior to another. Interpretation of the data and comparison of hybrids may be made more meaningful by use of the "difference necessary for significance" appearing at the bottom of each table. These differences have been computed by the "Multiple Range test."¹ To find the difference necessary for the 5-percent level of significance in comparing any two or more hybrids, the hybrids must be listed in order of their performance for the particular character being considered (they are now listed alphabetically in the 1959 results and ranked by yield in the summaries). Then the number of hybrids being compared plus the number falling between them on this ranking list should be counted. The total will be the "number in range." Once the "number in range" has been determined, the corresponding "difference necessary for significance" can be read from the table.

CONTRIBUTORS OF SEED

AES Hybrids.....	AES 702 (Monier)	
	AES 705 (Ill. Agr. Exp. Sta.)	
	AES 805 (Ill. Agr. Exp. Sta.)	
Ainsworth Hybrids.....	Ainsworth Seed Co.....	Mason City
Appl Hybrids.....	Appl's Hybrid Seed Co.....	St. Joseph
Bear Hybrids.....	Bear Hybrid Corn Co.....	Decatur, Box 628
Canterbury Hybrids.....	C. E. Canterbury Seed Co.....	Cantrall
Cargill Hybrids.....	Cargill, Inc.....	200 Grain Exchange Bldg. Minneapolis, Minnesota
Cornelius Hybrids.....	Cornelius Hybrid Corn Co.....	Bellevue, Iowa
Crib Filler Hybrids.....	Mitchell Farms.....	Windfall, Ind.
Crow's Hybrids.....	Crow's Hybrid Corn Co.....	Milford
DeKalb Hybrids.....	DeKalb Agriculture Assn., Inc.....	DeKalb
Doubet Hybrids.....	E. W. Doubet.....	Hanna City
Embro Hybrids.....	Ed. F. Mangelsdorf and Bros.....	1020 S. 4th Street P.O. Box 327 St. Louis 66, Mo.
Forster Hybrids.....	Parks Forster.....	Donnellson, Iowa
Frey Hybrids.....	Frey Hybrid Corn Co.....	Gilman
Holmes Hybrids.....	Zealy M. Holmes.....	Edelstein
Huey Hybrids.....	Huey Seed Co.....	Carthage
Hulting Hybrids.....	G. E. Hulting and Son.....	Geneseo

¹ DUNCAN, D. B., "Multiple Range and Multiple F. Tests." *Biometrics* 11, (1): 1-43. 1955.

Illinois Hybrids.....	Ill. 274-1, 972A-1, 1277, 1332, (Ill. Agr. Exp. Sta.) Ill. 1332 (George Pfeifer Seed Co., Arcola) Ill. 1349, 1421 (Ill. Agr. Exp. Sta.) Ill. 1421 (Pfeifer) Ill. 1511, 1555A, 1570, 1731A, 1813 (Ill. Agr. Exp. Sta.) Ill. 1813 (Pfeifer) Ill. 1851, 1857, 1861, 1863, 1864, 1878, 1875, 1893, 1919, 1921, 1936, 1959, 1960, 1992 (Ill. Agr. Exp. Sta.) Ill. 1992, 1996 (Pfeifer) Ill. 1996, 2214(W), 3049, 3152, 3302A-1, 3355, 3360, 3362, 6021, 6052 (Ill. Agr. Exp. Sta.)
McAllister Hybrids.....	McAllister Seed Farms.....Mt. Pleasant, Iowa
Moews Hybrids.....	Moews Seed Co.....Granville
Monier Hybrids.....	Roger Monier.....Sparland
Morton Hybrids.....	Roy A. Morton and Sons.....Bowen
Mountjoy Hybrids.....	Mountjoy Hybrid Seed Co.....Atlanta
Munson Hybrids.....	Munson Hybrids.....Galesburg
New Jersey Hybrids.....	N.J. 8 (Southern States)
Nichols Hybrids.....	Nichols Bros.....Hebron
Northrup King Hybrids....	Northrup King and Co.....1500 Jackson N.E. Minneapolis 13, Minnesota
Null Hybrids.....	Null Seed Farms.....Colchester
P.A.G. Hybrids.....	Pfister Assoc. Growers, Inc.....Aurora
Pioneer Hybrids.....	Pioneer Hi-Bred Corn Co. of Ill...Princeton
Plymouth Hybrids.....	Bruns Bros. Seed Co.....Camp Point
Pocklington Hybrids.....	Pocklington Bros.....So. Standard City
Prairie Gold Hybrids.....	Dittmer Seeds.....Carthage
Princeton Hybrids.....	Princeton Farms.....P.O. Box 319 Princeton, Ind.
Producers Hybrids.....	Producers Seed Co.....Piper City
Robe Hybrids.....	Robe Hybrid Corn Co.....Smithshire
Schenk's Hybrids.....	Charles H. Schenk and Sons.....Vincennes, Ind.
Schwenk Hybrids.....	W. T. Schwenk and Sons.....Edwards
Sieben Hybrids.....	Sieben Hybrids.....Geneseo
Southern States Hybrids...	Coop. Seed and Farm Supply Co...Muncie
Steckley Hybrids.....	Steckley Hybrid Corn Co.....2416 N. St., Lincoln, Nebr.
Stewart Hybrids.....	Frank S. Stewart and Son.....Princeville
Stiegelmeier Hybrids.....	H. L. Stiegelmeier.....Normal
Stone Hybrids.....	Stone Seed Co.....Pleasant Plains
Stull Hybrids.....	Stull Corn Co.....Sebree, Ky.
SuperCrost Hybrids.....	E. J. Funk and Sons.....Kentland, Ind.
Tiemann Hybrids.....	Tiemann Seed Co.....Bloomington
Todd Hybrids.....	W. H. Todd and Sons.....Burlington, Ind.
Tomco Hybrids.....	Tomahawk Hybrid Seed Co.....Belmond, Iowa
Trisler Hybrids.....	Trisler Seed Farms.....Fairmount
Troyer Hybrids.....	C. E. Troyer.....LaFontaine, Ind.
United-Hagie Hybrids.....	United-Hagie Hybrids, Inc.....Ames, Iowa
U.S. Hybrids.....	U.S. 13 (Ill. Agr. Exp. Sta.; Pfeifer)
Van Horn Hybrids.....	Van Horn Hybrids, Inc.....Cerro Gordo
Victor Hybrids.....	Polo Seed Co.....Polo
Whisnand Hybrids.....	Whisnand Hybrid Corn Co.....Arcola
Wyckoff's Hybrids.....	Wyckoff Hybrid Corn Co.....Valparaiso, Ind.
Wyffels Hybrids.....	William Wyffels.....Geneseo, P.O. Box 157

Table 3. — EXTREME NORTHERN ILLINOIS: Woodstock

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Moews 500A.....	120.0	26.2	58	92
P.A.G. 305.....	106.9	26.3	74	94
Pioneer 354.....	106.7	24.6	70	84
Pioneer 371.....	105.3	22.4	65	90
Pioneer 380.....	103.2	21.6	70	81
P.A.G. 323.....	103.0	27.8	57	90
Moews 14DR.....	102.7	23.5	63	88
P.A.G. 234.....	101.8	24.5	62	91
Illinois 1863 (Station).....	101.5	26.5	69	89
P.A.G. 62.....	101.4	22.9	57	89
Illinois 1277 (Station).....	101.1	24.7	56	84
Moews 14E.....	100.9	24.6	54	89
Illinois 1960 (Station).....	100.3	22.7	70	90
Illinois 1861 (Station).....	100.0	23.2	49	90
P.A.G. 253.....	99.9	24.0	56	86
DeKalb 406.....	99.4	23.2	53	93
Illinois 1555A (Station).....	99.3	24.4	61	87
DeKalb 444.....	98.8	27.8	72	90
DeKalb 414.....	98.6	26.6	63	87
DeKalb 222.....	98.5	22.7	46	93
Nichols NB43.....	97.8	25.6	66	90
Illinois 1864 (Station).....	97.4	26.2	65	89
DeKalb 409.....	96.5	22.6	51	91
DeKalb 253.....	96.3	23.9	67	89
Nichols NB75D.....	95.5	25.2	65	87
DeKalb 423.....	95.2	27.0	60	91
Steckley's Genetic Giant 4.....	93.4	23.1	73	81
Moews 15.....	91.1	25.7	57	90
Average of all entries.....	100.5	24.6	62	89
Number in range	Difference necessary for significance			
2.....	11.8	3.2	16	7
3-5.....	13.0	3.6	18	8
6-10.....	13.8	3.8	19	8
11-20.....	14.4	4.0	20	9
Over 20.....	14.5	4.0	20	9
1959 RESULTS				
Cargill 180.....	105.3	21.9	52	84
Cargill 255.....	99.4	21.9	26	93
Cargill 680.....	88.9	21.6	28	93
Cornelius 404B.....	109.1	20.7	51	95
Crow's 201.....	108.7	21.6	55	91
Crow's 205.....	97.4	21.7	47	91
Crow's 260.....	94.7	21.8	51	95
Crow's 402.....	105.7	21.9	61	89
DeKalb 222.....	100.8	20.7	22	95
DeKalb 251.....	91.1	21.4	39	97
DeKalb 253.....	100.3	21.4	61	96
DeKalb 400.....	124.9	23.0	28	89
DeKalb 406.....	92.5	22.1	34	94
DeKalb 409.....	92.8	21.0	31	97
DeKalb 411.....	106.3	21.8	52	94
DeKalb 414.....	100.4	22.7	51	85
DeKalb 423.....	104.3	22.5	32	92
DeKalb 440.....	111.0	22.8	53	97
DeKalb 444.....	111.3	22.9	65	95
DeKalb X72-312.....	100.3	21.9	56	97
Hulting 235.....	89.2	21.6	24	93
Hulting 238.....	111.0	21.6	23	96
Hulting 240.....	109.6	23.4	39	92
Hulting 242.....	122.1	21.3	64	90
Hulting 245.....	107.4	21.2	51	98
Illinois 1277 (Station).....	89.9	22.5	23	95
Illinois 1555A (Station).....	103.6	21.4	43	91

(Table is concluded on next page)

Table 3. — Woodstock — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1959 RESULTS — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Illinois 1861 (Station).....	99.7	21.9	20	98
Illinois 1863 (Station).....	110.5	22.8	46	96
Illinois 1864 (Station).....	90.5	22.2	37	95
Illinois 1959 (Station).....	110.5	21.8	48	96
Illinois 1960 (Station).....	98.3	20.6	56	93
Moews 14DR.....	99.7	21.5	46	92
Moews 14E.....	107.7	22.4	34	93
Moews 15.....	83.7	22.4	36	97
Moews 48.....	106.4	21.1	35	93
Moews 48A.....	121.8	22.6	65	96
Moews 500A.....	134.7	24.0	58	97
Nichols NB43.....	107.1	21.8	40	96
Nichols NB53.....	98.2	20.6	36	96
Nichols NB63.....	102.5	21.0	58	94
Nichols NB75D.....	98.1	23.1	55	90
Northrup King KO4.....	104.0	20.9	52	89
Northrup King KT.....	117.8	21.7	39	98
Northrup King KT1.....	109.0	21.7	38	95
Northrup King KT2.....	92.7	21.4	37	92
Northrup King KT5.....	92.7	22.3	25	96
Northrup King KT6.....	111.3	22.8	37	95
Northrup King KT7.....	101.4	22.9	34	94
P.A.G. 62.....	110.6	21.7	48	96
P.A.G. 234.....	100.8	22.6	62	90
P.A.G. 253.....	93.7	21.6	34	92
P.A.G. 305.....	108.4	23.0	59	96
P.A.G. 323.....	100.3	22.4	39	96
Pioneer 350C.....	101.6	22.4	40	98
Pioneer 352.....	108.3	21.1	25	94
Pioneer 354.....	115.5	21.8	56	91
Pioneer 371.....	113.0	20.5	59	94
Pioneer 380.....	106.0	20.2	48	90
Pioneer 380B.....	108.5	20.5	34	95
Producers 326.....	95.3	21.9	27	95
Producers 333.....	109.3	22.2	46	95
Producers 363.....	106.8	22.5	61	93
Steckley's Exp. 1995.....	81.4	20.7	17	85
Steckley's Genetic Giant 1.....	108.5	20.4	49	90
Steckley's Genetic Giant 3.....	92.9	21.3	46	95
Steckley's Genetic Giant 3A.....	99.7	21.3	44	91
Steckley's Genetic Giant 4.....	96.5	21.4	59	92
Steckley's Genetic Giant 6.....	100.6	22.0	37	96
SuperCrost 438.....	108.6	21.6	59	96
Victor 316.....	88.6	22.1	29	86
Victor 316A.....	84.6	21.2	18	98
Average of all entries.....	103.0	21.8	43	94
Number in range	Difference necessary for significance			
2.....	18.9	1.1	23	8
3-5.....	21.0	1.2	26	8
6-10.....	22.3	1.3	27	9
11-20.....	23.2	1.3	29	9
Over 20.....	23.3	1.3	29	9

Table 4. — NORTHERN ILLINOIS: DeKalb

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1955-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Frey 410.....	108.0	24.4	94	88
Nichols NB43.....	106.0	24.6	93	92
Pioneer 345.....	105.6	23.7	93	90
P.A.G. 234.....	105.5	22.7	95	88
DeKalb 459.....	104.9	22.7	88	89
Hulting 238.....	103.9	23.1	92	89
P.A.G. 277.....	103.8	22.7	87	91
Producers 326.....	102.1	22.4	90	90
Sieben S-340.....	102.1	24.3	94	90
Crow's 402.....	101.9	24.1	93	86
SuperCrost 440.....	101.7	24.7	90	88
Sieben S-560.....	101.1	23.8	93	87
Hulting 240.....	100.8	23.5	90	87
DeKalb 414.....	100.6	22.8	95	89
P.A.G. 253.....	100.6	22.9	88	88
Moews 14DR.....	99.9	22.7	93	92
Crow's 260.....	99.6	23.4	95	84
Pioneer 325.....	99.4	24.9	96	90
P.A.G. 244.....	98.5	23.0	91	92
Crow's 487.....	97.3	22.9	96	85
Sieben S-440E.....	97.2	24.4	89	86
Average of all entries.....	101.9	23.5	92	89
Number in range	Difference necessary for significance			
2.....	8.3	1.7	5	6
3-5.....	9.2	1.9	6	6
6-10.....	9.8	2.0	6	7
11-21.....	10.2	2.1	6	7
SUMMARY: 1957-1959				
Pioneer 329.....	114.3	25.0	80	96
Hulting 242.....	113.5	25.3	97	95
Moews 500A.....	113.4	25.9	94	90
Wyffels W-600.....	112.5	28.3	96	96
DeKalb 633.....	112.2	28.9	94	93
Steckley's Genetic Giant 10.....	111.4	26.8	95	88
Moews CB65A.....	111.0	26.0	96	90
Wyckoff's W20.....	110.5	26.9	97	89
Frey 410.....	109.0	25.1	95	91
Hulting 481.....	108.5	26.3	94	92
Moews 48.....	108.4	24.2	98	90
United Hagie UHWW40.....	108.0	25.5	94	87
Hulting 482.....	108.0	27.8	99	90
Nichols NB75D.....	106.3	25.5	91	94
Troyer M17T.....	106.3	29.1	97	93
Wyffels W-495.....	105.8	25.5	98	83
DeKalb 444.....	105.6	26.2	93	92
Producers 363.....	105.4	26.3	96	91
P.A.G. 305.....	105.3	26.0	94	91
Steckley's 18.....	105.1	26.9	97	89
Sieben S-360.....	104.9	27.6	94	90
P.A.G. 234.....	104.4	23.1	96	89
DeKalb 459.....	103.1	23.7	87	88
Pioneer 345.....	103.0	24.1	93	90
SuperCrost 438.....	103.0	25.5	94	88
Nichols NB43.....	102.9	26.2	93	93
Sieben S-340.....	102.5	25.1	94	91
P.A.G. 277.....	102.3	24.0	89	92
DeKalb 414.....	101.5	24.4	95	88
P.A.G. 323.....	101.5	27.6	95	88
Illinois 1861 (Station).....	101.3	23.4	85	94
Troyer M18.....	101.1	28.2	98	86
United Hagie UH41A.....	101.0	27.9	87	91
P.A.G. 253.....	100.8	23.8	90	88
Crow's 260.....	100.6	24.9	95	87
Wyckoff's W25A.....	100.6	27.9	96	84
Producers 326.....	100.0	24.3	88	91
Sieben S-560.....	100.0	25.0	91	88
Sieben S-320.....	99.9	26.3	96	89

(Table is continued on next page)

Table 4. — DeKalb — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959 — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Illinois 1555A (Station).....	99.8	23.0	94	93
Hulting 238.....	99.8	24.6	93	86
SuperCrost 440.....	99.6	26.2	91	92
Moews 14A.....	99.4	23.9	89	87
DeKalb 423.....	99.1	25.7	95	90
Crow's 402.....	98.5	25.6	94	89
Troyer M12T.....	98.4	30.0	98	88
Hulting 240.....	98.2	24.2	86	90
Troyer M13T.....	98.2	26.7	97	92
Moews 14DR.....	97.6	23.3	91	94
Pioneer 325.....	97.2	26.8	96	89
Crow's 487.....	95.3	25.0	98	83
Troyer M15T.....	95.3	26.8	93	85
Troyer E13T.....	94.8	25.6	92	89
Sieben S-440E.....	94.7	26.3	90	88
Wyckoff's W10A.....	94.1	25.5	94	87
P.A.G. 244.....	93.8	23.9	92	94
Sieben S-440.....	91.7	25.2	92	87
United Hagie UHWW30.....	88.7	26.2	96	87
Average of all entries.....	102.6	25.8	93	90
Difference necessary for significance				
Number in range				
2.....	12.0	2.5	9	7
3-5.....	13.4	2.8	10	8
6-10.....	14.3	3.0	11	9
11-20.....	14.9	3.1	11	9
Over 20.....	15.2	3.2	12	9

1959 RESULTS

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
AES 702 (Monier).....	109.0	25.0	92	95	.8
Cargill 256.....	108.3	23.3	94	97	.9
Cargill 259.....	95.6	23.4	90	83	1.0
Cargill 270.....	106.0	24.5	93	98	1.7
Cornelius C45.....	113.0	23.2	97	96	1.8
Crow's 260.....	98.6	22.8	92	91	1.0
Crow's 402.....	113.9	23.4	94	94	0
Crow's 487.....	102.1	23.5	96	90	0
DeKalb 411.....	101.2	22.4	96	95	0
DeKalb 414.....	103.9	23.2	91	93	.9
DeKalb 423.....	93.9	23.5	97	93	.9
DeKalb 444.....	104.1	24.4	92	98	.9
DeKalb 459.....	101.9	22.9	76	90	0
DeKalb 633.....	123.0	26.1	90	95	0
DeKalb 640.....	105.8	25.4	92	97	0
DeKalb Exp. 7.....	112.2	23.8	93	93	.8
DeKalb X4008.....	119.0	25.4	96	97	1.8
DeKalb X4035.....	105.0	23.5	92	95	.9
DeKalb X4049.....	100.7	25.3	93	91	.9
DeKalb X72-076.....	114.5	25.3	92	95	0
Frey 410.....	121.1	23.8	94	93	0
Frey 458.....	113.2	24.1	95	96	0
Hulting 235.....	94.3	22.5	77	97	.9
Hulting 238.....	112.2	23.1	94	96	1.8
Hulting 240.....	86.5	23.9	86	93	0
Hulting 242.....	111.3	22.8	95	97	1.7
Hulting 245.....	111.8	22.1	91	94	0
Hulting 260 SC.....	121.1	24.5	93	96	1.9
Hulting 481.....	110.7	24.6	89	97	0
Hulting 482.....	109.8	23.9	98	91	.9
Hulting 484.....	98.3	24.5	90	94	1.7
Illinois 1277 (Station).....	103.5	23.2	91	96	1.7
Illinois 1555A (Station).....	102.3	22.2	90	97	.8
Illinois 1861 (Station).....	96.0	22.4	79	96	2.6

(Table is continued on next page)

Table 4. — DeKalb — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1959 RESULTS — continued					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Illinois 1864 (Station).....	98.9	23.1	90	98	.8
Illinois 1936 (Station).....	113.7	23.2	96	98	0
Illinois 3152 (Station).....	115.1	22.9	94	90	.9
Illinois 3302A-1 Station.....	105.8	23.4	94	98	.8
Moews 14A.....	102.2	22.7	76	92	2.7
Moews 14DR.....	88.2	22.5	91	100	.8
Moews 48.....	108.6	22.9	97	92	.9
Moews 48A.....	118.8	24.9	94	93	1.0
Moews 58.....	112.6	22.7	85	94	0
Moews 500A.....	118.9	25.5	90	91	0
Moews 505A.....	115.1	22.1	95	95	3.4
Moews CB65A.....	117.2	25.3	97	97	.9
Monier 6-M-6.....	116.3	25.5	96	93	0
Mountjoy M-66.....	88.4	23.3	93	82	.3
Munson M-5.....	104.8	24.5	86	90	0
Nichols NB43.....	99.5	24.2	90	93	1.9
Nichols NB53.....	89.1	21.7	87	89	0
Nichols NB63.....	118.3	23.2	96	96	0
Nichols NB75D.....	117.9	23.6	84	97	0
Northrup King KT2.....	89.9	23.3	77	92	.9
Northrup King KT5.....	101.9	24.2	91	91	0
Northrup King KT6.....	121.9	23.4	89	92	0
Northrup King KT7.....	107.2	24.4	94	88	0
Northrup King 2057.....	128.7	26.2	96	94	0
Northrup King 2675.....	112.3	23.7	82	93	.9
P.A.G. 234.....	99.3	23.7	97	89	1.8
P.A.G. 244.....	93.9	22.2	93	95	.8
P.A.G. 253.....	97.2	22.5	84	89	0
P.A.G. 277.....	107.1	23.2	84	96	2.6
P.A.G. 305.....	109.5	24.3	94	93	0
P.A.G. 323.....	108.4	23.9	90	98	2.5
P.A.G. 15018.....	127.6	23.8	97	98	0
P.A.G. Exp. 10437.....	126.5	24.3	85	98	1.7
Pioneer 325.....	94.0	25.2	92	89	0
Pioneer 329.....	119.7	23.7	91	99	0
Pioneer 345.....	103.0	23.0	89	96	2.5
Pioneer 347.....	106.6	23.1	88	96	2.8
Pioneer 350C.....	103.0	22.7	95	97	1.7
Pioneer 371.....	107.0	21.2	87	92	0
Producers 326.....	97.3	23.2	86	88	0
Producers 341.....	115.6	23.3	97	95	.9
Producers 363.....	107.4	24.5	92	95	0
Producers 520.....	116.8	24.2	97	93	.9
Sieben S-320.....	106.4	23.7	91	96	1.7
Sieben S-340.....	118.3	24.1	91	97	0
Sieben S-360.....	108.1	24.4	93	97	4.3
Sieben S-440.....	91.0	23.5	83	88	1.0
Sieben S-440E.....	110.2	22.9	81	93	1.8
Sieben S-560.....	112.1	23.6	91	94	.9
Sieben S-580.....	106.8	24.0	95	98	1.7
Steckley's 18.....	114.0	24.5	92	95	0
Steckley's Exp. 1995.....	71.7	21.0	68	88	3.1
Steckley's Genetic Giant 1.....	108.5	22.2	85	98	0
Steckley's Genetic Giant 3.....	95.5	22.6	85	94	1.7
Steckley's Genetic Giant 3A.....	93.2	22.3	89	95	0
Steckley's Genetic Giant 6.....	109.5	21.9	90	94	.8
Steckley's Genetic Giant 10.....	118.6	24.7	93	89	1.0
SuperCrost 438.....	105.8	23.3	95	93	0
SuperCrost 440.....	103.0	24.8	80	99	2.5
SuperCrost X4.....	108.5	23.4	95	94	.9
Tiemann T-62.....	107.5	24.6	94	93	2.8
Todd 424.....	114.0	22.8	92	94	0
Todd 611B.....	108.9	23.3	89	93	1.8
Tomco 449.....	105.9	23.4	89	97	0
Troyer E13T.....	87.9	23.6	89	86	1.9
Troyer L13.....	112.9	25.1	94	98	1.7
Troyer M3T.....	99.8	24.4	96	95	3.6
Troyer M11T.....	110.0	26.4	97	95	1.8
Troyer M12T.....	106.9	25.5	96	92	0

(Table is concluded on next page)

Table 4. — DeKalb — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1959 RESULTS — concluded					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Troyer M13T.....	98.1	23.7	97	98	.8
Troyer M15T.....	86.9	24.4	89	88	3.0
Troyer M17T.....	99.1	25.7	97	93	1.7
Troyer M18.....	98.1	25.4	97	90	0
Troyer M19T.....	92.5	24.3	96	96	1.7
United-Hagie UH39.....	106.6	22.8	95	85	0
United-Hagie UH41A.....	106.7	23.8	84	98	1.7
United-Hagie UHWW30.....	84.8	23.0	90	93	.9
United-Hagie UHWW40.....	119.2	24.9	95	94	2.7
United-Hagie UHX138.....	111.4	22.5	92	93	0
United-Hagie UHX3H30.....	95.6	24.2	87	97	1.7
Victor 369.....	92.8	25.3	94	95	3.5
Wyckoff's W10A.....	112.1	23.5	96	94	1.8
Wyckoff's W20.....	115.5	25.1	94	94	.9
Wyckoff's W25A.....	104.1	25.1	94	81	0
Wyffels W-490.....	124.3	24.6	93	99	0
Wyffels W-495.....	113.3	22.9	97	93	1.7
Wyffels W-600.....	119.1	24.7	99	97	1.7
Average of all entries.....	106.5	23.8	91	94	1.0
Number in range	Difference necessary for significance				
2.....	16.6	1.3	9	8	3.1
3-5.....	18.5	1.4	10	9	3.4
6-10.....	19.7	1.5	11	9	3.6
11-20.....	20.6	1.5	11	9	3.8
Over 20.....	21.0	1.6	11	10	3.8

Table 5. — WEST NORTH-CENTRAL ILLINOIS: Galesburg

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1955-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Null N-83.....	128.4	20.5	85	93
Schwenk S34.....	128.3	20.0	88	93
DeKalb 820.....	126.5	20.5	87	91
Pioneer 329.....	126.1	19.3	92	91
Whisnand 830.....	125.2	20.4	92	90
Moews 520.....	125.0	20.0	82	89
Tiemann T-68.....	124.6	19.4	90	93
Moews 524.....	124.2	20.8	91	89
Pioneer 316.....	124.0	19.9	91	92
Appl A-130.....	123.1	20.1	84	90
P.A.G. 403.....	122.5	21.0	92	91
Hulting 380B.....	121.8	20.1	80	89
Holmes 39.....	120.6	21.7	82	89
Tiemann T-78.....	119.7	19.9	84	89
Sieben S-320.....	119.4	19.6	87	89
DeKalb 837.....	118.5	20.6	88	88
Appl A-259.....	118.0	20.4	91	87
Sieben S-360.....	117.9	20.7	86	91
Huey H-23.....	117.3	20.5	88	88
Sieben S-340.....	116.5	19.7	87	89
Crow's 608.....	115.2	19.7	87	88
Average of all entries.....	122.0	20.4	92	90
Number in range	Difference necessary for significance			
2.....	10.6	1.5	7	5
3-5.....	11.8	1.7	8	6
6-10.....	12.6	1.8	8	6
11-21.....	13.2	1.9	9	6

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb 805.....	133.4	22.2	90	88
Null N-83.....	132.1	21.5	84	93
McAllister 13A.....	131.5	20.8	84	88
P.A.G. Exp. 9028.....	131.1	20.6	84	85
Bear Unicorn X600.....	130.8	20.0	79	82
Pioneer 329.....	130.7	20.6	90	91
Appl A-130.....	129.3	20.7	79	89
Schwenk S34.....	128.4	20.5	83	93
DeKalb 3x1.....	127.8	21.8	79	94
Munson M-15.....	127.3	20.4	85	88
DeKalb 820.....	127.3	21.3	82	92
Whisnand 830.....	126.3	20.7	89	89
Frey F57.....	126.2	21.3	86	90
Stewart S-65.....	126.2	21.8	84	93
Moews 520.....	126.0	20.0	76	91
Whisnand 852.....	125.9	22.4	85	90
Pioneer 316.....	125.7	20.2	89	93
Producers 727.....	125.7	20.6	89	90
United Hagie UH52B.....	125.4	21.3	83	86
AES 702 (1957, Station; 1958-1959, Monier).....	125.0	21.1	86	90
Moews 524.....	124.8	22.6	86	88
Troyer L13.....	124.6	21.0	85	93
Moews 524A.....	124.6	21.3	86	94
DeKalb 812.....	124.4	20.8	87	89
Moews CB69A.....	124.3	20.0	93	92
Troyer M11T.....	123.8	21.1	88	92
Hulting 242.....	123.7	19.7	84	89
Robe 30.....	123.3	21.3	81	84
Crow's 360.....	123.2	21.7	84	90
Appl A-259.....	122.8	21.2	89	91
United Hagie UHWW50.....	122.8	21.2	86	92
Hulting 684.....	122.7	21.7	80	90
Steckley's Genetic Giant 13.....	122.3	20.9	90	90
Frey 892.....	122.3	21.1	82	91
P.A.G. 403.....	122.2	21.1	90	90
Tiemann T-68.....	122.0	20.4	86	91
Steckley's Genetic Giant 14.....	121.9	20.4	81	94
DeKalb 837.....	121.9	20.9	83	89
Huey H-23.....	120.9	21.4	86	89
Tiemann T-78.....	120.4	21.2	82	88
Van Horn V.H. 101.....	120.0	21.5	84	91
Crow's 608.....	119.7	20.2	60	92
Hulting 481.....	119.5	19.5	86	89
Troyer L14T.....	119.5	21.1	88	91
Sieben S-320.....	119.5	21.3	83	90
United Hagie UH55.....	119.0	21.7	80	91
Sieben S-360.....	118.2	21.4	79	90
Holmes 39.....	118.0	22.9	77	92
Munson M-77.....	117.8	21.4	82	81
Hulting 380B.....	117.6	21.5	74	88
Sieben S-340.....	117.3	21.2	72	89
Munson M-13.....	116.6	21.9	80	92
Munson M-119.....	115.6	22.5	82	91
Troyer M13T.....	114.9	20.0	87	91
United Hagie UH47A.....	113.4	21.9	85	89
Average of all entries.....	123.4	21.1	83	90
Number in range	Difference necessary for significance			
2.....	13.4	1.8	18	7
3-5.....	14.9	2.0	20	8
6-10.....	15.9	2.1	21	8
11-20.....	16.6	2.2	22	9
Over 20.....	16.9	2.2	22	9

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1959 RESULTS				
	bu.	perct.	perct.	perct.
AES 702 (Monier).....	113.9	21.5	79	86
Ainsworth X-97.....	108.1	20.3	93	82
Ainsworth X-98.....	111.2	21.7	80	91
Ainsworth X-100.....	116.6	22.2	89	87
Appl A-130.....	126.4	20.9	61	91
Appl A-259.....	116.5	20.6	84	88
Bear OK33.....	119.1	23.4	68	89
Bear OK-96A.....	134.4	23.4	76	92
Bear OK-878.....	119.3	20.6	79	86
Bear Unicorn X600.....	121.7	21.0	73	78
Bear Unicorn X606.....	126.8	23.1	67	92
Cargill 270.....	100.7	21.0	71	87
Cargill 310.....	114.6	20.1	84	86
Cornelius C75.....	108.8	20.1	74	94
Crow's 360.....	105.2	20.6	67	88
Crow's 495.....	101.1	20.9	70	87
Crow's 608.....	104.7	20.8	68	87
DeKalb 3x1.....	119.7	21.4	71	93
DeKalb 3x4.....	97.8	21.0	68	94
DeKalb 633.....	114.8	20.4	82	86
DeKalb 640.....	106.4	20.9	83	84
DeKalb 661.....	116.7	20.9	80	87
DeKalb 662.....	113.2	22.0	55	91
DeKalb 803A.....	118.6	23.5	61	91
DeKalb 805.....	138.2	22.3	92	86
DeKalb 812.....	108.2	21.9	84	88
DeKalb 814.....	99.4	21.2	62	88
DeKalb 820.....	112.3	21.2	71	85
DeKalb 837.....	95.3	20.7	79	85
Forster 25.....	116.5	21.0	85	89
Forster 33.....	126.6	20.5	83	91
Forster 44.....	119.8	22.8	86	92
Forster 56.....	116.7	22.6	77	89
Frey 892.....	104.2	21.0	76	84
Frey F57.....	115.2	20.7	82	86
Holmes 39.....	104.2	21.6	66	96
Holmes 47.....	113.4	20.7	73	94
Huey H-23.....	119.9	22.1	74	89
Huey H-42.....	112.1	21.1	72	92
Hulting 242.....	99.1	19.2	78	81
Hulting 260 SC.....	109.1	20.7	72	91
Hulting 380B.....	94.7	20.5	59	82
Hulting 481.....	97.4	20.1	83	93
Hulting 482.....	107.0	21.0	80	92
Hulting 484.....	103.7	21.7	71	92
Hulting 684.....	106.1	21.5	83	94
McAllister 13A.....	118.7	21.0	84	87
McAllister 22B.....	119.1	21.6	91	91
McAllister 33B.....	111.3	20.8	78	92
McAllister 66B.....	114.9	21.9	85	79
McAllister IVX1001A.....	118.4	20.5	94	80
McAllister X101 Superyield.....	115.2	23.3	87	84
Moews 505A.....	107.8	19.8	83	79
Moews 520.....	112.4	21.0	74	89
Moews 524.....	130.0	22.1	81	90
Moews 524A.....	114.5	21.4	81	94
Moews 5097.....	108.5	20.7	85	87
Moews CB69A.....	123.5	20.9	98	93
Moews CB96A.....	106.4	19.9	78	93
Monier 6-M-6.....	113.7	21.2	80	87
Morton M-303.....	105.5	21.6	74	94
Morton M-505.....	119.1	19.2	89	94
Morton M-606.....	109.7	19.9	91	79
Munson M-13.....	106.0	22.1	70	93
Munson M-15.....	106.9	20.1	87	84
Munson M-77.....	101.1	21.9	69	88
Munson M-119.....	116.6	22.8	71	93
Northrup King KT7.....	92.0	19.9	74	75
Northrup King KT9.....	99.7	20.7	78	76

(Table is concluded on next page)

Table 5. — Galesburg — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1959 RESULTS — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Northrup King 2057.....	117.9	21.5	88	86
Northrup King 2064.....	110.0	22.2	76	88
Northrup King 2675.....	116.4	21.0	74	88
Null N-68.....	110.8	20.4	86	89
Null N-83.....	132.2	21.9	85	90
P.A.G. 403.....	116.1	19.9	85	89
P.A.G. 415.....	119.7	21.2	62	87
P.A.G. 418.....	103.7	21.7	61	94
P.A.G. 15009.....	113.1	19.1	87	83
P.A.G. 15014.....	128.5	21.2	93	90
P.A.G. Exp. 9028.....	121.9	20.7	79	87
Pioneer 316.....	119.1	20.3	87	94
Pioneer 319.....	127.7	20.2	77	92
Pioneer 329.....	112.7	19.5	90	94
Pioneer 4549.....	129.6	21.7	87	97
Pioneer 5625.....	123.9	21.6	85	93
Pioneer 5757.....	116.3	21.6	85	85
Pioneer 6117.....	114.4	21.8	88	88
Prairie Gold D-791.....	103.5	20.7	87	85
Producers 520.....	121.3	21.3	86	90
Producers 716.....	116.6	21.6	74	86
Producers 727.....	110.1	20.0	85	92
Producers 953.....	118.4	21.1	91	86
Robe 30.....	109.5	22.6	79	72
Schwenk S17L.....	123.5	22.4	89	94
Schwenk S34.....	120.7	19.8	85	90
Sieben S-320.....	109.8	20.4	74	90
Sieben S-340.....	106.0	20.4	65	84
Sieben S-360.....	105.4	20.6	69	86
Sieben S-580.....	110.8	20.1	83	90
Steckley's Genetic Giant 12.....	115.6	20.8	80	94
Steckley's Genetic Giant 13.....	122.6	21.7	81	94
Steckley's Genetic Giant 14.....	108.0	21.3	65	96
Steckley's Genetic Giant 15.....	106.7	22.2	87	79
Steckley's Genetic Giant 20.....	110.2	23.1	61	91
Steckley's Genetic Giant Exp. 2015B.....	120.4	21.4	84	95
Stewart S-65.....	110.8	20.7	79	91
Tiemann T-68.....	118.6	19.7	79	86
Tiemann T-78.....	117.3	21.2	63	90
Troyer L13.....	112.3	21.0	78	90
Troyer L13T.....	103.8	21.4	87	83
Troyer L14T.....	104.2	21.5	82	93
Troyer L21T.....	116.1	19.9	81	93
Troyer M3T.....	95.8	20.5	75	91
Troyer M9A.....	105.7	21.1	77	90
Troyer M11T.....	118.9	21.1	84	94
Troyer M13T.....	109.8	19.6	76	95
Troyer M14T.....	110.9	21.0	87	90
Troyer M17T.....	107.6	21.4	80	87
United-Hagie UH47A.....	111.7	21.5	76	92
United-Hagie UH52B.....	110.4	21.6	76	91
United-Hagie UH55.....	111.2	21.2	84	90
United-Hagie UHWW50.....	115.3	20.7	88	85
United-Hagie UHX146.....	114.7	19.3	87	79
United-Hagie UHX3H410.....	105.0	22.2	77	89
Van Horn V.H. 95-1.....	101.8	21.5	66	87
Van Horn V.H. 99A.....	109.1	20.9	79	82
Van Horn V.H. 101.....	114.3	21.7	70	89
Whisnand 830.....	120.3	20.4	89	89
Whisnand 834.....	115.8	21.8	81	91
Whisnand 852.....	118.2	21.7	82	87
Wyffels W-490.....	111.3	19.7	87	78
Wyffels W-600.....	103.1	19.2	76	90
Average of all entries.....	112.8	21.1	79	88
Number in range.....	Difference necessary for significance			
2.....	16.1	1.5	14	11
3-5.....	18.0	1.7	16	12
6-10.....	19.2	1.9	18	14
11-20.....	20.0	1.9	18	14
Over 20.....	20.2	2.1	19	15

Table 6.—EAST NORTH-CENTRAL ILLINOIS: Ashkum

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb 632.....	112.7	22.4	97	86
Bear OK55.....	109.2	23.6	89	84
Moews CB96.....	109.0	23.8	83	92
Wyckoff's W20.....	104.6	22.6	93	82
Trisler T-19B.....	104.5	20.5	89	90
P.A.G. 234.....	104.5	23.5	86	86
Munson M-13.....	101.0	22.0	87	86
Illinois 274-1 (Station).....	100.5	23.2	82	89
DeKalb 805.....	100.4	24.5	93	85
Trisler T-35B.....	100.2	23.5	69	85
Moews 520.....	100.1	22.4	75	90
Crib Filler 131.....	100.0	24.2	90	83
Troyer L14T.....	99.9	22.1	87	89
Troyer M17T.....	99.6	22.8	90	90
Tiemann T-68.....	99.4	22.8	91	86
Troyer M13T.....	98.2	23.5	94	84
DeKalb 3x2.....	97.5	24.1	89	86
Producers 921.....	97.4	21.7	91	91
Hulting 380B.....	97.4	22.4	83	90
Wyckoff's W46A.....	97.2	22.5	88	89
Schwenk S27.....	97.0	21.6	92	91
Hulting 481.....	96.8	23.5	85	82
Frey 644.....	95.7	23.1	93	85
Moews CB60A.....	95.4	21.1	96	87
Schwenk S26.....	95.3	22.0	95	83
Trisler T-33.....	94.1	22.5	92	85
Crow's 607.....	93.6	22.0	90	87
Wyckoff's W25A.....	92.6	21.4	95	92
Trisler T-32B.....	92.1	21.4	94	86
Hulting 684.....	91.6	20.0	95	83
Frey 692.....	90.7	22.2	86	87
Troyer M11T.....	89.9	25.1	92	82
Hulting 242.....	89.3	20.3	92	86
Van Horn V.H. 100.....	89.1	23.7	90	84
Pioneer 301B.....	88.3	20.7	88	85
Moews 524A.....	87.7	22.0	84	84
Troyer M18.....	86.8	22.7	93	89
Frey 892.....	86.5	23.7	91	85
Crow's 495.....	81.1	22.8	95	86
Average of all entries.....	96.6	22.6	89	86
Number in range	Difference necessary for significance			
2.....	14.6	2.2	14	8
3-5.....	16.2	2.5	15	9
6-10.....	17.3	2.6	16	9
11-20.....	18.1	2.7	17	9
Over 20.....	18.4	2.8	17	10
1959 RESULTS				
Ainsworth X-97.....	89.6	21.7	98	78
Ainsworth X-98.....	110.4	22.8	100	89
Ainsworth X-100.....	84.2	24.0	94	85
Bear OK33.....	82.4	22.5	96	80
Bear OK55.....	102.1	22.6	100	83
Bear OK96.....	91.1	23.7	93	76
Bear OK96A.....	98.2	21.4	94	83
Bear Unicorn X600.....	97.8	19.6	94	84
Cargill 285.....	79.2	20.8	96	78
Cargill 330.....	81.2	22.4	97	88
Cargill 335.....	82.6	23.9	93	73
Crib Filler 62.....	83.1	21.5	97	79
Crib Filler 77.....	104.8	22.8	95	87
Crib Filler 131.....	92.3	23.5	99	78
Crow's 495.....	55.6	21.4	91	78
Crow's 607.....	95.2	22.2	95	87
Crow's 805.....	80.2	23.0	94	82
DeKalb 3x2.....	85.1	22.6	90	84
DeKalb 632.....	96.2	23.6	98	88
DeKalb 633.....	106.4	21.5	95	84
DeKalb 640.....	88.1	19.9	99	84
DeKalb 660A.....	101.9	23.7	98	81
DeKalb 803A.....	95.4	22.9	95	82

(Table is continued on next page)

Table 6. — Ashkum — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1959 RESULTS — continued				
	bu.	perct.	perct.	perct.
DeKalb 805.....	110.7	21.6	99	80
DeKalb 814.....	81.9	21.6	92	90
DeKalb 837.....	87.0	23.4	97	77
DeKalb 854.....	72.7	22.4	94	76
DeKalb 869.....	79.2	22.9	94	63
DeKalb X82-030.....	93.9	22.6	94	83
Frey 644.....	74.7	21.3	95	84
Frey 692.....	78.9	21.1	94	79
Frey 892.....	107.1	22.2	90	93
Hulting 242.....	65.9	19.2	97	70
Hulting 260 SC.....	88.5	21.2	95	90
Hulting 380B.....	91.5	22.8	89	83
Hulting 481.....	76.9	19.9	89	78
Hulting 482.....	79.3	22.1	99	76
Hulting 484.....	81.4	21.8	96	83
Hulting 684.....	80.2	20.9	97	86
Illinois 274-1 (Station).....	101.4	25.2	94	86
McAllister 23A.....	80.9	21.7	96	62
McAllister 33B.....	80.6	23.2	95	77
McAllister 77A.....	90.8	20.4	98	83
Moews 520.....	81.2	22.1	97	77
Moews 524A.....	100.8	22.2	97	80
Moews 525.....	80.8	23.7	93	77
Moews 5097.....	88.3	21.8	95	88
Moews CB60A.....	102.4	22.5	90	93
Moews CB96.....	107.2	22.3	92	92
Moews CB96A.....	112.3	20.3	100	89
Monier 6-M-6.....	96.0	21.4	92	85
Munson M-13.....	114.2	22.4	99	83
Northrup King KT7.....	68.1	19.6	98	72
Northrup King KT9.....	84.0	22.1	98	83
Northrup King 2057.....	76.4	23.2	95	82
Northrup King 2064.....	88.7	22.4	92	87
Northrup King 2675.....	88.6	22.3	97	80
P.A.G. 234.....	69.1	20.6	97	77
P.A.G. 305.....	87.7	20.2	94	88
P.A.G. 415.....	87.1	22.5	97	81
P.A.G. 418.....	86.1	22.8	90	88
Pioneer 301B.....	76.6	21.6	96	87
Pioneer 312A.....	89.5	24.2	94	75
Pioneer 319.....	90.5	22.2	92	70
Pioneer 4549.....	106.9	23.9	98	93
Pioneer 5625.....	80.5	22.6	98	81
Pioneer 5757.....	77.6	22.5	99	83
Pioneer 6117.....	96.4	22.8	96	81
Producers 520.....	90.4	21.3	96	79
Producers 716.....	68.9	21.5	93	69
Producers 727.....	97.5	22.1	98	89
Producers 921.....	88.6	23.4	99	88
Schwenk S26.....	96.2	23.4	97	86
Schwenk S27.....	87.9	22.1	100	73
Southern States Munsee.....	95.0	23.1	97	88
Southern States New Jersey 8.....	90.3	21.0	94	81
Southern States Shawnee.....	79.3	21.2	92	78
Steckley's Genetic Giant 9.....	108.5	19.8	94	87
Steckley's Genetic Giant 10.....	100.8	22.2	99	89
Steckley's Genetic Giant 12.....	100.9	21.5	95	74
Steckley's Genetic Giant 15.....	65.9	22.9	93	76
Steckley's Genetic Giant Exp. 2015B.....	87.9	23.8	94	88
SuperCrost 660.....	85.0	21.4	97	92
SuperCrost X6.....	97.5	21.4	99	72
SuperCrost X88.....	113.0	21.5	99	88
Tiemann T-68.....	100.0	20.8	96	87
Todd 424.....	97.5	19.1	97	94
Todd 611B.....	71.6	20.2	99	78
Trisler T-19B.....	81.2	20.2	97	82
Trisler T-32B.....	93.8	22.5	96	84
Trisler T-33.....	98.3	23.2	93	75
Trisler T-33B.....	101.3	22.8	93	85
Trisler T-35B.....	106.6	20.8	100	77
Troyer L13.....	100.5	22.2	94	83

(Table is concluded on next page)

Table 6. — Ashkum — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1959 RESULTS — concluded				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Troyer L14T.....	89.8	22.4	94	85
Troyer M3T.....	63.3	21.6	97	78
Troyer M9A.....	92.1	23.2	97	83
Troyer M11T.....	95.9	22.0	92	83
Troyer M13T.....	103.5	21.5	97	89
Troyer M14T.....	92.5	22.1	98	74
Troyer M17T.....	78.8	22.0	92	87
Troyer M18.....	92.8	22.8	99	87
Troyer M19T.....	67.4	20.2	92	69
Van Horn V.H. 86.....	72.4	20.6	92	84
Van Horn V.H. 97.....	113.5	21.4	96	78
Van Horn V.H. 100.....	84.7	22.2	90	73
Victor 371.....	65.9	20.7	95	84
Wyckoff's W20.....	85.0	21.7	100	91
Wyckoff's W25A.....	97.3	22.9	86	89
Wyckoff's W46A.....	80.8	22.1	99	71
Average of all entries.....	89.1	22.0	95	82
Number in range	Difference necessary for significance			
2.....	24.9	2.0	6	18
3-5.....	27.1	2.3	7	20
6-10.....	29.5	2.5	7	21
11-20.....	30.9	2.6	8	22
Over 20.....	31.4	2.6	8	23

Table 7. — WEST-CENTRAL ILLINOIS: Bowen

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Whisnand 852.....	119.0	24.6	90	92
DeKalb 3x1.....	113.0	21.5	94	88
Pioneer 312A.....	111.6	25.4	98	94
Plymouth P-97.....	107.9	22.0	96	92
Plymouth P-37.....	107.7	20.0	86	92
Munson M-119.....	107.4	21.3	90	91
Munson M-15.....	107.3	21.6	93	90
McAllister 13A.....	107.3	21.9	91	87
Moews 520.....	106.5	21.2	95	94
Moews 524.....	104.9	21.8	96	87
P.A.G. 444.....	104.1	25.2	96	88
Canterbury 420.....	104.0	21.4	90	92
DeKalb 803A.....	103.9	24.0	92	89
Whisnand 830.....	103.9	24.3	96	87
Hulting 684.....	101.9	21.9	96	94
P.A.G. 323.....	101.6	22.0	93	87
Producers 946.....	101.1	20.6	92	88
Canterbury 400.....	101.0	21.0	94	90
Huey H-106.....	100.3	22.0	97	89
Prairie Gold D-821.....	100.3	22.7	94	85
Morton M-70.....	100.0	22.4	90	91
DeKalb 812.....	98.8	22.3	96	93
Huey H-235.....	98.5	23.0	90	88
Morton M-12A.....	97.9	23.7	96	89
DeKalb 3x2.....	96.9	22.2	93	92
Morton M-404.....	95.7	23.4	98	90
Average of all entries.....	104.0	22.4	93	89
Number in range	Difference necessary for significance			
2.....	13.5	1.8	6	8
3-5.....	14.9	2.0	7	9
6-10.....	15.6	2.1	8	9
11-26.....	16.1	2.2	8	10

(Table is continued on next page)

Table 7. — Bowen — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1959 RESULTS					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
AES 805 (Station).....	81.3	23.0	82	98	1.7
Ainsworth X-14-3.....	101.4	24.4	87	97	0
Ainsworth X-98.....	89.0	24.2	94	87	1.0
Ainsworth X-100.....	94.0	25.2	88	93	0
Bear OK69.....	103.0	22.9	89	91	0
Bear OK96A.....	98.7	24.8	93	95	0
Bear OK878.....	85.0	25.7	92	87	0
Bear Unicorn X600.....	113.0	23.6	86	93	0
Bear Unicorn X606.....	102.3	25.5	86	90	0
Canterbury 400.....	89.0	21.0	83	88	0
Canterbury 420.....	93.2	23.4	80	93	0
Cargill 335.....	86.1	23.8	78	93	1.8
Cargill 5741.....	93.6	24.8	91	98	0
Cargill 5752.....	78.7	24.6	88	89	2.0
DeKalb 3x1.....	98.5	23.4	88	83	1.1
DeKalb 3x2.....	78.0	22.8	83	73	0
DeKalb 3x4.....	94.4	25.0	88	83	1.2
DeKalb 633.....	102.9	25.3	94	88	0
DeKalb 640.....	103.7	22.7	97	93	0
DeKalb 660A.....	90.8	25.9	95	92	0
DeKalb 803A.....	93.3	27.5	88	92	0
DeKalb 805.....	84.4	24.4	91	89	3.3
DeKalb 812.....	73.8	22.1	91	88	1.8
DeKalb 814.....	76.5	24.2	86	76	0
DeKalb 854.....	72.2	23.4	72	82	0
DeKalb X82-030.....	114.0	23.6	88	93	0
Huey H-51.....	92.4	25.9	91	88	0
Huey H-106.....	94.2	22.5	92	92	1.0
Huey H-235.....	86.3	24.1	81	85	1.0
Hulting 242.....	83.0	21.4	93	84	0
Hulting 482.....	99.3	24.1	97	86	0
Hulting 684.....	86.9	22.4	94	93	0
Illinois 1349 (Station).....	82.2	25.2	78	95	1.8
Illinois 1511 (Station).....	83.1	22.1	84	89	2.9
Illinois 1857 (Station).....	88.0	26.1	87	83	1.0
Illinois 1868 (Station).....	90.8	22.2	90	89	2.2
Illinois 1921 (Station).....	98.9	22.0	92	93	.9
Illinois 1996 (Station).....	97.0	21.5	99	90	.9
Illinois 3049 (Station).....	94.0	25.5	94	94	0
Illinois 6021 (Station).....	78.6	23.1	69	94	1.7
Illinois 6052 (Station).....	53.7	23.3	52	84	0
McAllister 13A.....	97.9	22.4	78	91	1.0
McAllister 33B.....	79.8	25.8	94	85	0
Moews 520.....	96.7	23.4	92	95	1.7
Moews 524.....	91.1	23.5	92	83	1.0
Moews 525.....	82.5	23.5	86	95	0
Moews 5097.....	102.3	23.0	92	93	0
Moews CB96A.....	93.1	24.2	96	92	0
Morton M-6x1.....	82.8	23.3	90	85	4.9
Morton M-12A.....	90.6	25.1	92	94	0
Morton M-70.....	94.2	22.2	84	91	0
Morton M-404.....	83.4	24.0	95	94	0
Munson M-15.....	91.3	22.4	87	89	0
Munson M-119.....	99.3	23.1	89	91	1.8
Null N-83.....	85.4	24.1	94	87	.9
P.A.G. 323.....	76.3	23.8	94	80	1.3
P.A.G. 415.....	98.1	24.1	93	93	1.0
P.A.G. 418.....	102.2	23.0	96	93	0
P.A.G. 434.....	98.1	26.7	89	91	1.0
P.A.G. 444.....	83.1	25.8	90	87	0
Pioneer 306B.....	89.3	23.6	89	76	2.4
Pioneer 312A.....	97.1	28.3	94	95	0
Pioneer 319.....	89.1	23.2	92	95	.9
Pioneer 4549.....	115.5	22.8	90	91	0
Pioneer 5625.....	87.8	24.8	91	90	1.9
Pioneer 5757.....	89.3	24.4	90	86	0
Pioneer 6117.....	100.5	23.0	97	86	.9
Plymouth P-37.....	90.7	21.3	71	82	2.8
Plymouth P-97.....	90.7	22.8	96	87	0

(Table is concluded on next page)

Table 7.—Bowen—concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1959 RESULTS—concluded					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Prairie Gold D-821.....	81.1	23.4	82	83	0
Prairie Gold D-837.....	92.9	22.8	95	84	2.1
Prairie Gold D-896.....	101.3	22.9	90	93	0
Producers 727.....	86.4	22.6	93	93	0
Producers 946.....	82.7	22.8	85	89	2.8
Steckley's Genetic Giant 10.....	92.0	22.0	93	88	3.7
Steckley's Genetic Giant 12.....	87.4	24.2	89	91	.9
Steckley's Genetic Giant 15.....	76.7	24.8	81	80	1.1
Steckley's Genetic Giant 20.....	86.1	24.2	85	93	1.0
Steckley's Genetic Giant Exp. 2015B.....	85.3	24.0	85	88	1.2
Troyer L13.....	89.6	24.2	93	90	1.0
Troyer L13T.....	82.0	25.6	86	90	0
Troyer L14T.....	76.7	22.7	92	84	0
Troyer M9A.....	86.4	23.8	91	90	2.9
Troyer M11T.....	95.6	24.8	89	94	0
Troyer M13T.....	79.1	22.2	91	84	3.8
Troyer M14T.....	88.4	21.5	77	82	1.1
Troyer M17T.....	80.8	22.2	93	87	0
U.S. 13 (Station).....	82.9	22.4	82	86	.9
Whisnand 830.....	94.0	25.0	91	92	0
Whisnand 852.....	111.7	24.9	84	93	0
Average of all entries.....	90.2	23.8	88	89	.8
Number in range	Difference necessary for significance				
2.....	17.0	2.9	11	14	1.0
3-5.....	18.9	3.2	12	16	1.1
6-10.....	20.1	3.4	13	17	1.2
10-20.....	21.2	3.5	13	17	1.2
Over 20.....	21.4	3.6	13	18	1.3

Table 8.—CENTRAL ILLINOIS: Stanford

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 309A.....	123.1	24.7	94	93
Bear Unicorn X600.....	123.0	19.5	89	89
Bear OK24.....	118.6	20.6	96	90
Tiemann T-81.....	118.5	22.1	90	91
Pioneer 302.....	118.3	23.3	93	94
Stiegelmeier Hi-B-Jack S-396.....	117.8	22.4	94	93
Van Horn V.H. 95-1.....	117.3	21.7	93	91
Moews 524.....	116.9	20.5	96	96
Pioneer 329.....	116.1	18.7	97	95
Moews CB90A.....	116.1	20.5	96	96
Moews CB69A.....	116.1	20.5	95	91
P.A.G. 444.....	115.8	22.3	90	89
Whisnand 830.....	115.1	20.3	94	90
DeKalb 692.....	114.5	20.1	94	93
Ainsworth X-14-3.....	114.5	20.3	92	95
DeKalb 803A.....	114.4	21.6	93	94
DeKalb 837.....	114.3	21.6	87	94
Producers 921.....	112.9	19.0	95	94
Trisler T-32B.....	112.8	20.4	94	93
Troyer L14T.....	112.6	20.2	94	92
Frey F-57.....	111.5	20.4	92	92
DeKalb 812.....	111.5	21.4	94	92
Moews CB60A.....	111.5	22.3	95	95
Troyer M11T.....	111.3	20.8	91	91
Van Horn V.H. 100.....	110.6	19.9	94	91
Frey 892.....	110.6	20.0	95	94

(Table is continued on next page)

Table 8. — Stanford — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959 — concluded				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Canterbury 400.....	110.3	18.9	88	94
Tomco 812.....	110.2	20.2	96	96
Trisler T-35B.....	110.0	19.4	94	88
Troyer L21T.....	110.0	21.7	97	90
Canterbury 420.....	109.3	19.4	93	93
Stiegelmeier Hi-B-Jack S-600.....	109.0	20.3	87	86
Troyer L13.....	108.2	19.6	96	96
Illinois 1919 (Station).....	108.0	19.5	90	95
Van Horn V.H. 98.....	108.0	19.6	94	91
Stiegelmeier Hi-B-Jack S-300A.....	107.0	20.8	92	92
Tiemann T-78.....	106.9	19.3	93	92
DeKalb 3x1.....	106.2	19.3	86	91
Hulting 684.....	106.0	20.3	98	92
Appl A-130.....	105.4	18.6	95	95
Trisler T-19B.....	105.4	19.6	93	92
Mountjoy M-33.....	104.8	20.2	94	93
Van Horn V.H. 97.....	104.3	20.2	93	91
Canterbury 404.....	100.6	18.9	92	93
Average of all entries.....	111.9	20.5	93	92
Number in range	Difference necessary for significance			
2.....	11.3	1.7	6	5
3-5.....	12.5	1.9	7	5
6-10.....	13.2	2.1	8	6
11-20.....	13.7	2.1	8	6
Over 20.....	13.7	2.2	8	6

1959 RESULTS

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
AES 702 (Monier).....	103.4	21.1	86	95	3.5
AES 805 (Station).....	99.4	22.9	95	98	5.1
Ainsworth X-14-3.....	116.2	21.3	89	98	.9
Ainsworth X-98.....	109.3	22.3	91	96	0
Ainsworth X-100.....	92.0	23.0	94	96	1.7
Appl A-130.....	109.1	21.2	93	97	.9
Appl A-400.....	98.7	21.2	89	93	3.6
Bear OK24.....	116.6	21.4	96	94	.9
Bear OK96A.....	119.8	22.5	89	95	.9
Bear OK878.....	112.2	21.8	98	98	.9
Bear Unicorn X600.....	126.7	21.9	85	93	2.7
Bear Unicorn X606.....	112.6	24.6	96	93	.9
Canterbury 400.....	98.7	20.8	89	95	0
Canterbury 404.....	99.0	21.0	88	98	1.7
Canterbury 420.....	103.6	21.6	97	93	1.8
Cargill 310.....	111.2	21.3	88	96	.9
Cargill 5035.....	103.8	21.8	91	88	0
DeKalb 3x1.....	100.3	18.6	84	88	0
DeKalb 633.....	119.4	22.0	91	98	1.7
DeKalb 640.....	120.9	21.0	97	95	.9
DeKalb 660A.....	119.9	22.4	95	94	0
DeKalb 803A.....	109.5	22.9	86	94	1.8
DeKalb 805.....	134.2	22.2	97	93	3.9
DeKalb 812.....	111.5	22.1	91	94	.9
DeKalb 814.....	105.5	19.4	90	93	2.7
DeKalb 837.....	120.5	22.9	85	98	1.7
DeKalb 854.....	105.7	22.3	81	96	0
DeKalb 869.....	118.5	18.9	94	88	2.8
DeKalb X82-030.....	125.3	21.8	90	92	1.7
Frey 692.....	113.3	20.1	93	99	0
Frey 892.....	114.6	21.3	96	96	0
Frey F57.....	109.0	19.3	93	98	0
Hulting 684.....	99.1	21.0	100	93	1.7
Illinois 274-1 (Station).....	93.5	23.7	83	91	1.0
Illinois 972A-1 (Station).....	110.9	20.6	84	97	.9
Illinois 1421 (Station).....	130.2	21.0	90	98	0

(Table is concluded on next page)

Table 8. — Stanford — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped Ears
1959 RESULTS — concluded					
	bu.	perct.	perct.	perct.	perct.
Illinois 1813 (Station).....	102.4	22.8	96	94	0
Illinois 1919 (Station).....	112.3	20.6	93	96	0
Illinois 1936 (Station).....	112.8	19.9	98	98	0
Illinois 1996 (Station).....	122.9	20.4	95	98	0
Illinois Exp. (Station).....	109.9	20.4	91	96	3.4
Moews 524.....	109.1	21.1	99	95	.9
Moews 5097.....	111.8	20.2	99	93	1.9
Moews CB60A.....	103.1	22.7	98	98	2.5
Moews CB69A.....	113.6	22.6	99	98	.9
Moews CB90A.....	119.9	22.3	97	98	.8
Moews CB96A.....	114.4	20.7	98	97	.8
Monier 6-M-6.....	109.9	20.8	96	93	0
Mountjoy M-33.....	105.3	20.5	95	94	0
Mountjoy M-100.....	110.4	21.5	95	98	1.7
Mountjoy M-444.....	102.9	20.4	97	90	1.0
P.A.G. 415.....	113.2	22.4	94	93	0
P.A.G. 418.....	112.4	20.4	91	96	0
P.A.G. 444.....	121.7	22.6	90	93	.9
P.A.G. 15009.....	110.5	18.4	96	94	.9
P.A.G. 15014.....	128.2	21.5	97	93	2.8
Pioneer 302.....	134.5	24.0	94	98	0
Pioneer 309A.....	135.6	24.7	95	96	0
Pioneer 309B.....	123.4	25.9	92	93	0
Pioneer 319.....	112.4	21.3	92	98	0
Pioneer 329.....	116.4	20.1	95	96	0
Pioneer 4549.....	133.0	22.5	96	98	0
Pioneer 5625.....	118.7	22.7	95	98	1.7
Pioneer 5757.....	116.9	19.9	99	98	.9
Pioneer 6117.....	120.0	21.6	100	98	2.6
Producers 727.....	118.7	21.1	90	90	0
Producers 921.....	112.7	20.5	96	96	0
Producers 953.....	119.1	21.3	94	95	2.7
Schwenk S17B.....	107.9	21.2	97	98	0
Schwenk S27.....	112.9	22.2	94	89	0
Sieben S-320.....	105.3	20.3	94	87	1.2
Sieben S-340.....	99.1	20.1	88	88	0
Sieben S-360.....	112.5	21.2	91	96	3.5
Sieben S-580.....	113.8	20.5	96	93	1.8
Stiegelmeier Hi-B-Jack S-300A.....	110.7	22.6	95	93	3.7
Stiegelmeier Hi-B-Jack S-396.....	117.5	22.3	96	95	0
Stiegelmeier Hi-B-Jack S-600.....	117.0	21.9	96	94	0
Tiemann T-78.....	103.0	22.2	90	93	4.6
Tiemann T-81.....	128.9	22.6	95	98	.9
Todd 635.....	126.1	20.5	98	97	0
Todd 840.....	120.8	22.6	95	95	.9
Tomco 812.....	112.5	21.2	97	98	0
Tomco 838.....	123.1	21.9	93	96	0
Trisler T-19B.....	105.7	21.0	90	92	0
Trisler T-32B.....	106.9	21.3	90	93	1.8
Trisler T-35B.....	116.3	20.9	92	92	.9
Troyer L13.....	99.0	20.2	98	93	.9
Troyer L13T.....	109.4	20.6	95	92	.9
Troyer L14T.....	108.6	19.9	95	94	1.7
Troyer L21T.....	106.5	20.6	94	94	0
Troyer M9A.....	102.2	21.6	96	91	1.9
Troyer M11T.....	105.7	22.7	91	94	1.7
Troyer M14T.....	106.3	22.4	91	90	0
Troyer M17T.....	96.8	22.1	95	91	0
Van Horn V.H. 95-1.....	115.7	22.0	91	96	0
Van Horn V.H. 97.....	102.3	21.5	90	96	6.2
Van Horn V.H. 98.....	104.0	20.4	90	93	3.6
Van Horn V.H. 100.....	106.9	21.8	92	93	0
Whisnand 830.....	121.1	21.9	94	90	.9
Whisnand 852.....	129.4	23.5	92	93	0
Average of all entries.....	112.6	21.5	93	94	1.1
Number in range	Difference necessary for significance				
2.....	19.3	2.1	8	7	2.5
3-5.....	21.5	2.4	9	8	2.8
6-10.....	22.9	2.5	9	8	3.0
11-20.....	23.9	2.6	10	9	3.1
Over 20.....	24.4	3.7	10	9	3.2

Table 9. — EAST-CENTRAL ILLINOIS: Urbana

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1955-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Bear OK96.....	128.7	21.3	91	88
Appl A-159.....	126.9	19.6	90	92
Holmes 39.....	124.8	20.1	82	93
Whisnand 851.....	124.6	21.5	90	89
Frey 692.....	124.1	19.1	87	92
Canterbury 420.....	123.6	18.5	91	93
Whisnand 830.....	123.4	19.8	94	89
Frey 892.....	122.6	18.9	91	92
Appl A-130.....	122.0	18.3	87	92
P.A.G. 444.....	121.8	22.7	92	90
Trisler T-32B.....	120.6	20.1	92	91
Trisler T-33B.....	120.4	19.8	91	90
Munson M-119.....	119.7	19.5	87	89
Pioneer 316.....	119.3	19.4	90	94
Moews 523.....	119.3	19.7	84	91
Canterbury 400.....	119.2	18.9	88	92
Hulting 380B.....	118.7	19.6	85	93
Moews 520.....	118.0	19.2	86	92
AES 805 (1955-1957, 1959, Station; 1958, Stone)...	117.9	20.4	94	93
Trisler T-19B.....	116.9	18.8	88	88
Tiemann T-72.....	116.9	19.2	93	89
Canterbury 404.....	116.7	18.3	85	94
Ainsworth X-14-3.....	116.0	19.6	87	91
Crow's 608.....	115.0	18.4	88	89
Trisler T-33.....	114.9	20.8	88	91
Average of all entries.....	120.5	19.7	89	91
Number in range	Difference necessary for significance			
2.....	7.3	1.2	7	5
3-5.....	8.2	1.3	7	6
6-10.....	8.7	1.4	8	6
11-25.....	9.1	1.5	8	7
SUMMARY: 1957-1959				
Whisnand 852.....	129.1	23.7	93	95
Stiegelmeier Hi-B-Jack S-600.....	127.9	21.3	93	91
Bear OK96.....	127.6	23.8	99	88
Stiegelmeier Hi-B-Jack S-396.....	127.4	23.8	98	90
Appl A-159.....	127.0	21.8	96	93
Moews 524A.....	125.9	22.7	98	93
Illinois 1893 (Station).....	124.9	20.3	97	95
Appl A-130.....	123.7	19.8	96	93
Frey 692.....	123.1	20.7	96	92
Crib Filler 131.....	122.9	23.3	96	93
Pioneer 312A.....	122.9	23.8	96	93
Frey 892.....	122.5	21.4	98	94
Holmes 39.....	122.5	22.2	95	94
Canterbury 420.....	122.2	19.4	98	92
DeKalb 3x1.....	122.1	21.3	97	92
Whisnand 830.....	121.5	22.1	97	89
Canterbury 400.....	120.4	20.5	95	92
Pioneer 309A.....	120.3	23.9	98	91
Whisnand 851.....	120.0	23.6	93	90
Illinois 1421 (Pfeifer).....	119.8	21.8	97	94
Van Horn V.H. 97.....	119.7	20.9	97	94
Hulting 684.....	119.5	20.5	98	92
Trisler T-32B.....	119.5	21.9	98	92
Moews 523.....	119.0	21.4	93	90
Crow's 805.....	118.6	21.1	96	92
Van Horn V.H. 95-1.....	118.6	23.9	98	89
Illinois 1332 (Pfeifer).....	118.5	19.9	97	94
Van Horn V.H. 100.....	118.3	20.8	96	88
Illinois 972A-1 (Station).....	118.2	20.8	92	90
Frey F57.....	118.1	22.7	96	95
Troyer M11T.....	118.0	22.0	94	93
Munson M-119.....	117.8	21.2	95	92
DeKalb 803A.....	117.8	22.3	96	90
Trisler T-35B.....	117.7	21.7	96	92

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959 — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Hulting 380B.....	117.6	21.3	92	93
Trisler T-33B.....	117.3	21.6	96	92
Troyer L14T.....	117.3	21.9	97	92
Ainsworth X-14-3.....	117.0	20.8	95	91
P.A.G. 444.....	116.5	24.3	98	89
AES 805 (1957, Station; 1958-1959, Stone).....	115.7	22.0	97	95
Moews 520.....	115.6	20.6	94	92
Pioneer 316.....	115.6	21.7	98	95
Trisler T-19B.....	115.5	20.5	97	91
Crow's 608.....	115.4	19.8	95	88
DeKalb 837.....	115.3	22.3	97	90
Tiemann T-72.....	114.8	20.9	97	91
DeKalb 812.....	114.6	22.9	97	90
Troyer L13.....	114.4	20.8	97	91
Canterbury 404.....	114.0	19.6	93	96
Troyer L21T.....	113.3	23.2	98	92
Illinois 1813 (Pfeifer).....	112.4	22.9	97	91
Trisler T-33.....	111.2	23.2	94	91
Van Horn V.H. 98.....	110.0	20.9	96	92
Average of all entries.....	119.3	21.8	96	92
Number in range	Difference necessary for significance			
2.....	10.6	1.6	4	7
3-5.....	11.9	1.8	5	7
6-10.....	12.6	1.9	5	8
11-20.....	13.2	2.0	5	8
Over 20.....	13.4	2.0	6	8

1959 RESULTS

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
AES 705 (Station).....	108.8	21.1	97	82	0
AES 805 (Station).....	101.8	22.4	96	93	4.4
AES 805 (Stone).....	86.7	22.9	95	92	7.3
Ainsworth X-14-3.....	99.8	22.3	92	89	1.8
Ainsworth X-98.....	99.4	22.1	92	84	0
Ainsworth X-100.....	95.5	23.2	96	93	.9
Appl A-130.....	115.6	21.6	86	95	2.6
Appl A-159.....	117.8	22.6	95	91	0
Appl A-400.....	110.6	21.8	93	88	5.6
Bear OK55.....	104.3	22.5	98	74	0
Bear OK69.....	102.0	22.5	94	83	0
Bear OK96.....	96.1	24.0	99	74	3.5
Bear OK96A.....	109.1	23.5	95	85	2.0
Bear OK878.....	116.3	22.6	98	95	1.8
Bear Unicorn X600.....	129.7	22.8	92	90	0
Bear Unicorn X606.....	121.3	22.5	97	92	1.9
Canterbury 400.....	107.1	21.4	93	89	.9
Canterbury 404.....	94.6	21.7	87	94	2.7
Canterbury 420.....	102.2	22.0	97	83	0
Cargill 733.....	102.0	21.4	97	86	1.2
Cargill 5752.....	107.9	23.4	94	88	1.0
Crib Filler 77.....	106.9	23.5	94	79	0
Crib Filler 124.....	99.2	22.8	96	84	.9
Crib Filler 131.....	104.8	23.6	93	90	4.4
Crow's 608.....	100.8	22.1	91	89	.9
Crow's 805.....	107.8	23.0	93	92	1.0
DeKalb 3x1.....	107.8	22.4	95	86	0
DeKalb 633.....	107.8	22.4	84	86	0
DeKalb 640.....	111.0	21.4	100	92	1.8
DeKalb 660A.....	109.2	23.4	95	89	.9
DeKalb 803A.....	93.8	23.7	92	83	1.1
DeKalb 805.....	119.6	22.1	100	91	4.5
DeKalb 810.....	129.5	23.3	88	92	0
DeKalb 812.....	99.9	23.4	98	86	1.1
DeKalb 814.....	87.5	21.8	92	83	2.1

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1959 RESULTS — continued					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb 837.....	96.8	23.0	94	82	2.2
DeKalb 854.....	90.0	23.2	74	89	1.0
DeKalb 869.....	93.6	23.2	93	83	2.0
Frey 692.....	103.2	22.3	95	90	2.9
Frey 892.....	103.9	22.2	97	86	.9
Frey F57.....	96.0	22.4	91	90	0
Holmes 39.....	110.5	23.3	95	94	0
Hulting 380B.....	109.3	22.6	84	93	.9
Hulting 684.....	111.4	21.6	100	88	2.0
Illinois 274-1 (Station).....	94.0	24.7	94	87	0
Illinois 972A-1 (Station).....	98.6	21.7	79	81	1.1
Illinois 1332 (Pfeifer).....	100.0	21.8	94	88	2.8
Illinois 1421 (Pfeifer).....	110.4	21.8	97	93	.9
Illinois 1813 (Pfeifer).....	89.5	23.0	95	86	1.1
Illinois 1893 (Station).....	104.6	21.5	95	91	2.8
Illinois 1919 (Station).....	95.5	22.2	92	94	2.5
Illinois 1921 (Station).....	113.1	21.9	93	95	.9
Illinois 1992 (Pfeifer).....	111.6	21.9	96	93	.9
Illinois 1996 (Pfeifer).....	115.5	22.6	97	93	.8
Illinois 3049 (Station).....	83.8	23.2	99	77	0
Illinois 6021 (Station).....	87.8	21.5	85	84	2.8
Illinois 6052 (Station).....	62.6	24.5	77	81	1.1
Moews 520.....	91.6	21.9	90	90	.9
Moews 523.....	102.6	21.0	91	84	0
Moews 524A.....	105.1	23.2	99	91	0
Moews 525.....	93.4	23.3	96	88	.9
Moews 5094.....	91.9	24.2	92	88	1.9
Moews 5097.....	117.2	21.7	94	90	0
Moews CB96A.....	105.7	21.5	99	90	0
Monier 6-M-6.....	110.2	22.4	92	90	0
Munson M-119.....	95.7	21.3	91	91	2.6
P.A.G. 415.....	98.6	22.1	94	87	0
P.A.G. 418.....	109.9	23.7	95	91	0
P.A.G. 444.....	100.4	25.5	98	88	.9
P.A.G. 15014.....	98.6	21.5	98	91	3.0
P.A.G. Exp. 11497.....	99.6	22.1	96	89	0
Pioneer 309A.....	93.4	26.3	97	87	0
Pioneer 309B.....	92.4	26.9	99	90	0
Pioneer 312A.....	103.6	24.2	93	91	0
Pioneer 316.....	98.2	22.5	97	95	.9
Pioneer 319.....	101.9	21.9	94	89	2.8
Pioneer 4549.....	106.0	22.7	98	93	0
Pioneer 5625.....	114.8	23.4	98	94	0
Pioneer 5757.....	96.2	22.9	96	94	0
Pioneer 6117.....	91.2	23.3	99	88	0
Producers 520.....	101.2	21.9	98	84	2.1
Producers 727.....	95.5	22.3	97	90	0
Producers X969.....	107.4	23.4	98	83	0
Robe 30.....	90.5	23.0	85	88	1.0
Schenk's S-60.....	91.9	22.7	95	83	1.0
Schenk's S-70.....	90.6	23.0	98	61	0
Southern States Catawba.....	105.6	23.6	94	90	0
Southern States Cherokee.....	112.9	24.8	97	93	1.8
Steckley's Genetic Giant 12.....	114.3	22.0	99	88	1.0
Steckley's Genetic Giant 15.....	95.2	22.7	95	83	0
Steckley's Genetic Giant 20.....	93.0	23.8	88	80	0
Steckley's Genetic Giant Exp. 2015B.....	105.9	22.3	91	90	0
Stiegelmeier Hi-B-Jack S-396.....	112.7	24.1	100	87	1.0
Stiegelmeier Hi-B-Jack S-600.....	107.1	21.9	92	88	1.9
Stone 1996.....	106.4	22.3	96	92	1.0
SuperCrost C1F.....	97.7	23.3	94	78	1.0

(Table is concluded on next page)

Table 9. — Urbana — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped Ears
1959 RESULTS — concluded					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Tiemann T-72.....	99.4	21.6	96	88	0
Todd 620B.....	89.0	21.0	93	82	0
Todd 635.....	97.6	23.0	97	78	2.4
Trisler T-19B.....	97.3	20.9	94	83	1.2
Trisler T-32.....	101.4	21.7	93	87	1.0
Trisler T-32B.....	101.3	22.3	95	90	1.0
Trisler T-33.....	99.9	23.1	94	88	2.8
Trisler T-33B.....	88.9	23.0	94	71	3.5
Trisler T-35B.....	99.3	21.7	93	83	1.9
Troyer L13.....	96.1	22.7	96	88	4.0
Troyer L13T.....	87.2	23.1	93	88	2.8
Troyer L14T.....	89.9	22.9	97	87	3.0
Troyer L21T.....	95.0	22.0	99	87	1.0
Troyer M9A.....	102.6	22.5	90	90	5.5
Troyer M11T.....	100.8	22.7	89	94	2.7
Troyer M14T.....	86.0	22.9	96	71	0
Troyer M17T.....	97.5	23.1	96	91	0
Van Horn V.H. 95-1.....	96.7	24.0	96	81	0
Van Horn V.H. 97.....	101.2	22.0	96	87	6.7
Van Horn V.H. 98.....	88.4	22.2	94	86	6.2
Van Horn V.H. 100.....	95.0	22.2	91	75	0
Van Horn V.H. 111.....	111.9	22.5	84	93	2.6
Whisnand 830.....	114.1	23.0	94	81	1.9
Whisnand 851.....	105.1	25.1	92	85	0
Whisnand 852.....	119.6	24.1	86	92	0
Average of all entries.....	101.7	22.7	94	87	1.4
Number in range	Difference necessary for significance				
2.....	18.4	1.3	8	12	3.6
3-5.....	20.1	1.4	9	13	4.1
6-10.....	21.9	1.5	10	14	4.3
11-20.....	22.9	1.6	10	15	4.5
Over 20.....	23.3	1.6	10	15	4.6

Table 10. — WEST SOUTH-CENTRAL ILLINOIS: Greenfield

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 309B.....	98.8	23.4	91	91
Moews 524.....	98.3	18.5	90	89
Moews 523.....	96.8	18.5	87	91
Bear OK878.....	96.0	18.5	83	88
Bear OK96.....	95.9	19.4	91	89
Pocklington P-78A.....	94.1	19.9	87	87
Pioneer 316.....	92.6	17.8	89	87
Whisnand 834.....	92.6	18.8	90	85
Pioneer 302.....	92.6	20.7	88	92
Pioneer 301B.....	91.6	17.0	89	91
Moews CB69A.....	91.5	17.6	94	88
P.A.G. 454.....	90.7	21.4	88	94
Canterbury 400.....	88.8	16.9	88	89
Ainsworth X-14-A.....	88.7	20.1	77	92
Moews CB60A.....	88.5	19.7	88	88
Pocklington P-75A.....	88.1	18.3	85	84
Crow's 805.....	87.7	18.4	87	90
Whisnand 830.....	86.7	17.3	90	82
DeKalb 803A.....	86.7	19.4	80	86
Whisnand 852.....	86.0	19.3	85	77
Van Horn V.H. 95-1.....	85.5	19.2	87	86
Canterbury 420.....	84.6	16.8	88	86
Crow's 821.....	84.5	16.8	88	86
Van Horn V.H. 97.....	79.1	18.4	85	83
Average of all entries.....	90.3	18.8	87	87
Number in range	Difference necessary for significance			
2.....	11.0	1.6	10	9
3-5.....	12.1	1.7	11	10
6-10.....	12.7	1.8	12	11
11-20.....	13.0	1.9	12	11
Over 20.....	13.0	1.9	13	11
1959 RESULTS				
Ainsworth X-14-A.....	86.0	20.4	57	93
Ainsworth X-98.....	88.4	19.4	67	89
Ainsworth X-100.....	89.2	20.1	85	96
Bear OK93.....	103.5	18.2	72	94
Bear OK96.....	98.2	20.2	80	92
Bear OK878.....	107.9	19.0	78	91
Bear Unicorn X600.....	91.4	19.3	47	92
Bear Unicorn X606.....	108.3	21.5	76	90
Canterbury 400.....	90.1	17.9	74	94
Canterbury 420.....	101.6	16.2	67	98
Cargill 320.....	99.0	17.4	80	91
Cargill 335.....	88.5	20.1	61	90
Crow's 805.....	84.0	18.6	69	97
Crow's 821.....	91.0	18.0	71	92

(Table is concluded on next page)

Table 10. — Greenfield — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1959 RESULTS — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb 3x4.....	96.2	18.7	60	89
DeKalb 633.....	92.8	19.3	58	93
DeKalb 640.....	104.5	18.7	87	93
DeKalb 660A.....	93.3	18.4	74	92
DeKalb 803A.....	90.7	20.0	49	90
DeKalb 805.....	107.5	19.2	68	94
DeKalb 812R.....	91.6	20.0	60	93
DeKalb 814.....	91.9	17.9	77	91
DeKalb 854.....	82.9	19.3	68	88
DeKalb 869.....	108.8	18.8	68	98
DeKalb 925(W).....	92.6	20.4	62	92
DeKalb X72-194.....	96.0	20.0	62	89
Embro 33.....	88.5	19.7	68	90
Embro 33A.....	83.8	19.9	78	89
Huey H-50.....	88.1	17.7	65	94
Huey H-75.....	75.7	17.2	62	88
Illinois 2214(W) (Station).....	113.3	20.0	71	98
Moews 523.....	95.5	19.4	75	94
Moews 524.....	103.2	18.1	84	94
Moews 525.....	81.4	19.1	64	88
Moews 5094.....	94.2	19.1	72	99
Moews 5097.....	86.6	17.7	65	87
Moews CB60A.....	87.3	19.5	66	88
Moews CB69A.....	95.3	17.7	85	93
Moews CB96A.....	100.6	16.3	70	96
P.A.G. 403.....	83.7	17.8	86	96
P.A.G. 415.....	86.1	17.7	86	90
P.A.G. 434.....	103.5	18.5	68	97
P.A.G. 454.....	97.0	23.3	78	96
P.A.G. 15014.....	100.2	18.4	57	91
Pioneer 301B.....	88.6	18.1	75	96
Pioneer 302.....	94.9	21.1	71	96
Pioneer 309B.....	97.4	24.2	75	92
Pioneer 312A.....	105.0	20.7	70	93
Pioneer 316.....	93.4	18.4	70	92
Pioneer 319.....	104.7	17.3	64	96
Pioneer 4549.....	113.0	19.9	67	97
Pioneer 5625.....	95.1	19.3	88	94
Pioneer 5757.....	83.0	20.0	74	84
Pioneer 6117.....	93.4	19.1	86	80
Pocklington P-75A.....	93.7	18.6	58	88
Pocklington P-78A.....	97.8	19.9	78	91
Princeton 660.....	79.5	17.9	75	97
Princeton 685.....	99.4	18.8	76	91
Producers 995.....	112.0	20.3	56	99
Producers X984.....	99.3	18.4	65	97
Steckley's Genetic Giant 12.....	89.2	17.6	77	91
Steckley's Genetic Giant 15.....	80.1	18.5	64	92
Steckley's Genetic Giant 20.....	88.4	19.7	68	90
Steckley's Genetic Giant Exp. 2015B.....	103.3	18.5	78	96
Stone 1996.....	107.4	17.6	70	97
Van Horn V.H. 95-1.....	93.2	19.1	70	94
Van Horn V.H. 97.....	79.2	17.6	62	91
Van Horn V.H. 100.....	97.6	17.5	68	90
Van Horn V.H. 111.....	103.0	18.6	39	92
Whisnand 830.....	94.5	17.8	75	91
Whisnand 834.....	95.6	18.4	74	93
Whisnand 852.....	98.1	19.4	62	90
Average of all entries.....	94.7	19.0	70	93
Number in range	Difference necessary for significance			
2.....	13.4	1.8	16	8
3-5.....	14.8	2.0	18	9
6-10.....	15.7	2.1	19	9
11-20.....	16.4	2.2	20	10
Over 20.....	16.5	2.2	20	10

Table 11. — SOUTHERN ILLINOIS: Brownstown

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1955-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
P.A.G. 631W.....	84.4	27.6	65	92
Producers 13-1.....	83.9	23.3	64	93
Canterbury 400.....	83.4	25.2	70	92
Canterbury 420.....	82.6	22.4	74	91
DeKalb 925(W).....	82.6	28.8	65	93
Illinois 1511 (1955, Appl; 1956-1959, Station).....	82.0	22.3	64	90
Bear OK69.....	81.9	24.1	79	91
Tiemann T-72.....	80.4	23.3	71	91
Tiemann T-78.....	79.9	21.6	76	88
Munson M-119.....	79.3	24.8	69	89
Pioneer 302.....	78.7	27.0	72	90
Moews CB70A.....	78.4	23.9	79	89
Pioneer 312A.....	77.5	27.4	79	87
Whisnand 830.....	76.8	26.4	78	87
Ainsworth X-14-3.....	76.2	22.6	73	92
Trisler T-33B.....	76.1	24.6	69	90
Trisler T-32B.....	75.2	25.8	72	88
Trisler T-33.....	72.4	24.4	67	90
Average of all entries.....	79.5	24.7	71	90
Number in range	Difference necessary for significance			
2.....	8.8	3.6	9	6
3-5.....	9.8	4.0	10	7
6-10.....	10.4	4.3	11	7
11-18.....	10.8	4.5	11	7
SUMMARY: 1957-1959				
Canterbury 420.....	86.1	26.3	80	91
P.A.G. 631W.....	85.3	24.2	71	92
Producers 13-1.....	84.2	28.4	69	93
DeKalb 925(W).....	84.1	36.2	70	92
DeKalb 803A.....	83.0	30.9	78	93
Illinois 1511 (Station).....	82.9	26.7	69	88
Pioneer 319.....	82.2	29.9	90	94
Canterbury 400.....	81.5	32.0	77	90
Bear OK69.....	81.2	28.8	83	91
Pioneer 309B.....	81.2	36.4	77	88
Tiemann T-78.....	79.6	26.2	82	89
Moews 523.....	79.5	27.1	81	91
Bear OK878.....	79.4	30.2	77	93
Tiemann T-72.....	79.2	28.4	78	91
Van Horn V.H. 76.....	78.4	28.8	74	91
DeKalb 3x1.....	78.3	30.0	70	91
Whisnand 830.....	78.3	32.1	81	92
Ainsworth X-14-3.....	77.1	26.8	77	92
Pioneer 302.....	76.9	32.0	78	91
Munson M-119.....	75.9	31.1	75	85
Moews CB70A.....	75.6	28.8	85	92
Trisler T-32B.....	75.6	31.4	79	92
Trisler T-33.....	74.0	29.7	73	90
Crib Filler 131.....	73.8	30.1	85	89
Van Horn V.H. 100.....	73.8	30.1	79	88
Pioneer 312A.....	73.5	32.3	87	88
Trisler T-33B.....	72.6	29.7	78	86
Whisnand 852.....	72.3	33.6	78	88
Trisler T-35B.....	71.0	28.8	88	89
Illinois 1851 (Station).....	70.4	33.7	78	92
Average of all entries.....	78.2	29.8	78	90
Number in range	Difference necessary for significance			
2.....	12.0	10.7	14	6
3-5.....	13.4	11.9	15	6
6-10.....	14.2	12.6	16	7
11-20.....	14.8	13.1	17	7
Over 20.....	14.8	13.2	17	7

(Table is continued on next page)

Table 11. — Brownstown — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1959 RESULTS					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
AES 805 (Station).....	72.0	24.1	93	91	1.1
Ainsworth Goldline 378.....	96.2	23.6	91	99	2.2
Ainsworth X-14-3.....	73.0	23.0	94	94	2.3
Ainsworth X-98.....	69.8	24.5	97	86	1.2
Ainsworth X-100.....	97.5	25.1	96	92	1.2
Bear OK69.....	83.3	23.6	99	88	0
Bear OK96A.....	82.8	24.2	89	92	3.5
Bear OK878.....	78.4	23.7	96	96	0
Bear Unicorn X600.....	96.3	23.0	96	97	0
Bear Unicorn X606.....	68.6	24.2	100	94	0
Canterbury 400.....	97.9	22.9	91	90	2.4
Canterbury 420.....	92.7	21.6	92	96	1.1
Cargill 310.....	74.5	22.6	89	91	0
Cargill 5752.....	80.8	24.4	93	97	1.1
Crib Filler 123.....	68.3	23.5	94	89	0
Crib Filler 124.....	80.6	22.7	97	87	0
Crib Filler 131.....	69.7	21.9	96	93	1.2
DeKalb 3x1.....	80.4	23.5	88	93	0
DeKalb 3x4.....	69.6	23.3	83	94	0
DeKalb 660A.....	67.8	25.4	93	96	0
DeKalb 803A.....	91.5	25.2	95	92	1.1
DeKalb 805.....	80.2	23.5	99	92	7.3
DeKalb 814.....	67.4	23.2	95	92	2.4
DeKalb 854.....	80.9	23.8	91	94	1.1
DeKalb 856.....	89.6	23.0	84	96	0
DeKalb 869.....	75.3	24.5	92	92	1.3
DeKalb 925(W).....	102.1	24.5	85	98	0
DeKalb 82-013.....	74.5	24.8	81	81	4.3
DeKalb 82-019.....	83.7	24.3	97	96	2.3
Illinois 1349 (Station).....	81.6	23.8	94	96	0
Illinois 1511 (Station).....	87.4	22.1	82	92	0
Illinois 1851 (Station).....	67.1	23.5	92	96	2.4
Illinois 1875 (Station).....	80.5	23.0	93	93	4.8
Illinois 3355 (Station).....	81.2	24.8	99	91	1.2
Illinois 3360 (Station).....	81.9	24.1	87	96	1.1
Illinois 3362 (Station).....	79.7	25.3	95	89	0
Moews 523.....	79.6	22.8	93	94	1.2
Moews 525.....	78.6	24.3	94	91	1.3
Moews 5094.....	76.7	24.4	92	91	1.2
Moews 5097.....	80.7	22.5	97	97	1.2
Moews CB70A.....	78.2	23.8	98	92	0
Moews CB96A.....	83.8	22.9	97	91	1.3
Mountjoy M-103.....	85.0	23.4	94	98	0
Munson M-119.....	91.7	22.8	89	90	1.2
P.A.G. 434.....	89.4	24.3	92	92	2.3
P.A.G. 631W.....	97.4	26.3	94	94	1.2
P.A.G. 633W.....	104.5	26.2	80	94	0
Pioneer 302.....	84.1	25.2	90	92	0
Pioneer 309A.....	89.7	27.2	96	93	1.2
Pioneer 309B.....	95.5	30.9	92	94	0
Pioneer 312A.....	81.6	24.9	99	89	1.3
Pioneer 319.....	87.9	22.6	95	94	0
Pioneer 4549.....	93.0	23.7	94	97	0
Pioneer 5757.....	73.3	23.8	91	89	2.3
Pioneer 6117.....	83.2	23.5	99	90	0
Princeton 660.....	56.3	22.8	84	94	1.2
Princeton 685.....	85.7	23.4	97	89	3.7
Princeton 888.....	81.3	23.2	95	91	0
Princeton 890.....	75.2	24.2	89	92	0
Princeton 990W.....	81.8	23.0	86	82	5.2
Producers 13-1.....	93.9	22.8	89	93	3.8
Producers 995.....	96.0	24.1	98	90	1.2
Producers 1066.....	95.3	24.4	94	94	0

(Table is concluded on next page)

Table 11.—Brownstown—concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
1959 RESULTS—concluded					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Steckley's Genetic Giant 12.....	86.5	22.9	93	93	0
Steckley's Genetic Giant 15.....	61.4	22.8	76	96	0
Steckley's Genetic Giant 20.....	76.7	24.6	76	89	0
Steckley's Genetic Giant Exp. 2015B.....	75.9	24.4	92	90	2.4
Stull 100Y.....	96.3	23.5	91	93	0
Stull 101Y.....	89.9	24.7	94	96	0
SuperCrost C2F.....	82.8	24.1	90	90	1.3
Tiemann T-72.....	82.8	23.1	98	92	1.3
Tiemann T-78.....	78.7	23.4	87	89	0
Trisler T-32B.....	83.9	23.5	99	92	1.2
Trisler T-33.....	71.8	24.4	85	91	4.8
Trisler T-33B.....	66.9	22.4	87	86	2.7
Trisler T-35B.....	69.8	23.1	98	90	0
Van Horn V.H. 76.....	85.0	23.0	89	96	2.3
Van Horn V.H. 95-1.....	75.6	24.2	88	92	2.4
Van Horn V.H. 100.....	76.2	22.9	96	84	2.7
Whisnand 830.....	81.1	23.3	93	94	1.2
Whisnand 852.....	83.0	23.6	96	91	0
Average of all entries.....	81.7	23.8	92	92	1.2
Number in range	Difference necessary for significance				
2.....	16.0	1.6	10	9	3.3
3-5.....	17.8	1.8	11	10	3.7
6-10.....	19.0	1.9	12	10	3.9
11-20.....	19.8	2.0	12	11	4.1
Over 20.....	20.2	2.1	13	11	4.2

Table 12. — EXTREME SOUTHERN ILLINOIS: Carbondale 1955, Wolf Lake 1956-1959

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1955-1959				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Stull 400W.....	105.9	17.5	95	91
Ainsworth X-14-A.....	102.4	17.2	91	91
Whisnand 830.....	97.8	17.5	97	90
DeKalb 925(W).....	96.6	18.9	97	89
P.A.G. 631W.....	96.2	18.8	96	89
Whisnand 851.....	96.0	18.3	97	92
Illinois 1570 (Station).....	94.4	16.9	94	91
Pioneer 302.....	90.8	17.8	98	93
Tiemann T-72.....	87.4	16.5	93	88
Tiemann T-78.....	87.0	17.2	95	92
Average of all entries.....	95.5	17.7	95	91
Number in range	Difference necessary for significance			
2.....	9.7	1.0	6	6
3-5.....	10.9	1.1	7	6
6-10.....	11.4	1.2	7	7
SUMMARY: 1957-1959				
Stull 400W.....	104.2	17.9	96	92
Illinois 1851 (Station).....	104.1	16.9	97	91
Pioneer 309A.....	101.9	19.0	97	92
Van Horn V.H. 55W.....	100.6	18.4	89	88
Ainsworth X-14-A.....	100.1	17.4	96	93
Pioneer 302.....	98.1	18.2	100	92
Pioneer 309B.....	98.0	16.7	97	94
Whisnand 852.....	97.5	17.9	97	89
DeKalb 1023.....	96.7	19.3	90	92
Whisnand 830.....	95.9	17.7	97	91
Illinois 1570 (Station).....	95.5	16.8	98	93
Whisnand 851.....	95.1	18.1	98	93
DeKalb 925(W).....	93.0	18.4	96	90
P.A.G. 485.....	92.8	17.9	97	97
Illinois 2214(W) (Station).....	92.3	17.8	90	91
Moews CB100.....	91.3	18.8	96	89
P.A.G. 631W.....	89.1	18.3	95	92
Tiemann T-72.....	83.5	17.0	91	89
Tiemann T-78.....	80.5	17.4	92	90
Average of all entries.....	95.3	17.9	95	91
Number in range	Difference necessary for significance			
2.....	13.5	1.7	9	6
3-5.....	14.9	1.8	10	7
6-10.....	15.8	1.9	10	7
11-19.....	16.4	2.0	10	8

(Table is concluded on next page)

Table 12. — Wolf Lake — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Leaf blight ^a
1959 RESULTS					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>score</i>
Ainsworth X-14A.....	93.1	19.4	93	94	3.5
Ainsworth X-100.....	90.0	20.3	96	91	3.6
DeKalb 805.....	90.1	20.7	92	91	2.3
DeKalb 814.....	54.7	20.2	88	83	3.9
DeKalb 854.....	81.9	19.3	85	93	2.7
DeKalb 856.....	82.5	17.6	82	89	3.9
DeKalb 869.....	92.0	19.6	96	90	3.7
DeKalb 898A.....	69.2	19.6	81	89	3.6
DeKalb 925(W).....	81.2	20.7	91	87	2.8
DeKalb 1023.....	80.0	23.0	71	86	3.1
DeKalb 1028.....	91.6	22.8	87	94	1.7
DeKalb X72-159.....	100.7	21.0	93	94	2.6
DeKalb X82-028.....	93.2	18.7	90	90	3.2
DeKalb X82-029.....	107.9	20.6	87	93	3.8
Illinois 1570 (Station).....	90.5	18.2	96	96	3.4
Illinois 1851 (Station).....	96.2	20.6	91	93	2.8
Illinois 2214(W) (Station).....	67.1	21.2	77	88	1.6
Moews 5094.....	72.3	20.9	79	93	3.1
Moews 5097.....	86.8	19.0	100	93	3.3
Moews CB96A.....	98.2	18.7	100	94	3.0
Moews CB98W.....	85.8	21.7	100	96	2.6
Moews CB100.....	88.0	20.2	95	92	2.6
P.A.G. 434.....	91.1	20.0	91	93	2.7
P.A.G. 485.....	69.6	22.5	90	90	1.6
P.A.G. 631(W).....	59.2	21.8	88	83	2.3
Pioneer 302.....	87.7	19.7	95	94	2.1
Pioneer 309A.....	95.9	21.2	100	91	1.8
Pioneer 309B.....	97.9	23.5	93	89	1.3
Pioneer 316.....	88.4	18.2	92	92	3.0
Pioneer 319.....	95.3	18.3	93	92	2.8
Pioneer 4549.....	74.1	19.6	89	81	3.4
Pioneer 5757.....	75.2	20.3	95	93	2.7
Pioneer 6117.....	82.1	19.9	93	89	2.9
Princeton 660.....	52.7	18.4	71	80	3.8
Princeton 685.....	80.7	20.1	93	90	3.1
Princeton 888.....	97.8	19.7	89	91	3.1
Princeton 890.....	70.6	20.5	70	92	3.0
Princeton 990W.....	69.9	20.5	91	78	1.8
Producers 995.....	80.0	20.8	87	88	3.0
Producers 1066.....	83.1	22.1	87	87	2.8
Schenk's S-80.....	86.7	19.9	99	91	3.0
Schenk's S-90W.....	76.2	20.9	91	90	1.8
Stull 100Y.....	87.1	20.3	91	82	2.5
Stull 101Y-B.....	89.0	19.9	93	89	2.3
Stull 400W.....	87.5	21.0	87	84	2.6
Stull 400W-C.....	88.8	20.9	94	86	2.0
Stull 400W-R.....	92.9	21.2	89	93	2.5
Tiemann T-72.....	71.3	18.1	74	88	4.0
Tiemann T-78.....	70.5	19.5	77	90	3.6
Tiemann T-81.....	87.9	20.6	91	89	3.3
Van Horn V.H. 55W.....	88.0	21.4	87	91	1.5
Van Horn V.H. 100.....	70.2	18.6	88	92	3.5
Whisnand 830.....	89.9	19.0	93	93	3.2
Whisnand 851.....	89.2	20.2	95	86	2.5
Whisnand 852.....	92.2	19.9	94	89	2.4
Whisnand 917W.....	90.6	19.3	91	87	2.1
Average of all entries.....	84.0	20.2	89	90	2.8
Number in range	Difference necessary for significance				
2.....	23.1	1.5	15	10	1.0
3-5.....	25.7	1.6	16	11	1.1
6-10.....	27.2	1.7	17	12	1.2
11-20.....	28.2	1.8	18	12	1.2
Over 20.....	28.5	1.8	18	12	1.2

^a Leaf blight ratings are on a scale from 1 (most resistant) to 5 (completely susceptible).

Table 13.—INCREASED PLANTING RATES: 1959 Results

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
NORTHERN ILLINOIS: DeKalb—24,000 plants per acre				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb 221.....	87.0	22.2	70	89
DeKalb 251.....	84.1	22.6	86	91
DeKalb 253.....	84.3	22.4	88	92
DeKalb 400.....	101.0	23.9	90	95
DeKalb 411.....	84.6	22.6	95	97
DeKalb 414.....	83.6	22.7	86	92
DeKalb 423.....	89.2	21.7	90	92
DeKalb 440.....	116.4	23.5	88	91
DeKalb 444.....	88.6	24.1	88	94
DeKalb 633.....	100.1	25.4	85	91
DeKalb 640.....	120.7	24.6	85	91
DeKalb Exp. 7.....	102.5	23.5	83	91
Doubet D413.....	111.8	24.6	88	83
Doubet D435.....	105.0	24.4	95	91
Holmes 47E.....	102.1	24.8	76	90
Hulting 238.....	91.7	22.4	79	90
Hulting 242.....	100.6	23.0	81	90
Hulting 245.....	98.3	21.4	87	91
Illinois 1277 (Station).....	81.9	22.8	83	93
Illinois 1421 (Station).....	108.5	24.6	75	96
Illinois 1996 (Station).....	109.5	24.5	81	95
Illinois (Hy2xOh7).....	99.2	24.0	79	92
Illinois (WF9xC103).....	42.2	24.5	90	93
Moews 14DR.....	89.0	22.4	89	94
Moews 48.....	109.6	22.2	87	89
Moews 48A.....	122.9	24.8	86	95
Moews 500A.....	94.4	24.6	88	88
Moews 505A.....	110.5	22.1	87	95
P.A.G. 234.....	113.6	22.8	85	95
P.A.G. 305.....	98.2	23.5	87	95
P.A.G. 323.....	75.7	24.6	81	95
P.A.G. 15018.....	118.9	24.5	85	88
Pioneer 325.....	79.0	24.2	83	97
Pioneer 329.....	99.7	23.8	83	91
Pioneer 345.....	105.8	23.2	79	95
Pioneer 347.....	99.0	22.2	73	93
Pioneer 350C.....	100.3	23.1	87	94
Pioneer 352.....	93.0	22.2	80	90
Pioneer 371.....	114.7	20.5	86	90
Pocklington P-20.....	90.8	25.5	86	94
Pocklington P-48.....	93.9	24.4	81	87
Pocklington P-50.....	92.2	24.5	85	85
Pocklington P-62.....	101.5	24.6	86	88
Sieben S-320.....	85.0	23.2	81	92
Sieben S-340.....	91.2	23.3	83	93
Sieben S-360.....	93.4	24.4	86	89
Sieben S-580.....	103.7	23.9	87	87
Steckley's Genetic Giant 4.....	98.8	21.6	88	87
Stewart S-82.....	85.3	24.3	93	78
Todd 424.....	109.2	23.6	91	93
Tomco 449.....	99.4	23.4	87	98
Tomco 619.....	113.7	24.9	91	96
Tomco 678.....	102.4	24.5	89	90
Troyer M3T.....	78.1	24.7	90	86
Troyer M17T.....	91.8	24.3	88	88
Wyffels W-600.....	120.2	23.5	85	97
Average of all entries.....	97.6	23.6	85	91
Number in range.....	Difference necessary for significance			
2.....	19.2	1.2	10	7
3-5.....	21.3	1.3	11	8
6-10.....	22.5	1.4	11	8
11-20.....	22.6	1.5	12	8
Over 20.....	23.6	1.5	12	8

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped Ears
EAST-CENTRAL ILLINOIS: Urbana — 24,000 plants per acre					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Bear OK69.....	105.2	20.7	89	85	.7
Bear Unicorn X710.....	117.2	21.4	93	83	0
Crib Filler 70,116,123 ^a
DeKalb 633.....	94.3	20.1	84	78	.2
DeKalb 640.....	99.0	19.0	95	87	0
DeKalb 650.....	85.8	18.8	89	87	.6
DeKalb 660A.....	109.2	20.6	90	86	.1
DeKalb 803A.....	91.9	21.3	72	86	0
DeKalb 805.....	84.2	19.6	97	89	1.6
DeKalb 810.....	94.1	23.7	89	88	0
DeKalb 812.....	97.5	23.7	97	86	.7
DeKalb 812R.....	91.1	23.6	96	83	1.4
DeKalb 814.....	80.3	21.4	91	83	3.2
DeKalb Exp. 2.....	84.7	21.5	96	83	.1
DeKalb Exp. 6.....	83.1	23.4	98	84	0
Doubet D413.....	87.9	22.5	83	82	5.2
Doubet D435.....	86.0	21.1	99	85	.7
Frey 692H.....	85.8	20.7	99	84	.1
Frey 892.....	93.6	22.1	90	86	.7
Holmes 47.....	96.0	20.2	95	89	1.3
Illinois 1332 (Station).....	107.5	19.3	93	92	1.3
Illinois 1421 (Station).....	98.9	21.6	72	90	.7
Illinois 1731A (Station).....	71.6	21.6	83	81	.1
Illinois 1851 (Station).....	83.0	22.1	83	91	0
Illinois 1893 (Station).....	55.3	19.6	92	84	2.2
Illinois 1936 (Station).....	85.4	20.3	90	89	0
Illinois 1996 (Station).....	92.7	22.0	91	84	0
Illinois 3049 (Station).....	87.1	21.3	86	88	.6
Illinois 3152 (Station).....	83.5	21.1	94	87	.5
Illinois (Hy2xOh7).....	114.6	20.8	85	88	.1
Illinois (WF9xC103).....	59.7	19.9	85	78	5.6
McAllister 77A.....	98.1	20.5	97	86	1.2
McAllister E.X. A1.....	91.7	20.1	89	85	1.9
McAllister E.X. B1.....	42.1	20.1	97	82	.1
Moews 520.....	69.1	21.0	86	89	.5
Moews 524A.....	87.8	22.5	97	85	.6
Moews 525.....	79.4	20.4	91	91	3.5
Moews 5094.....	76.0	20.4	86	90	.1
Moews CB96A.....	71.5	21.1	93	82	.6
Morton M-6X.....	97.0	20.8	83	93	.1
Mountjoy M-55.....	100.2	20.3	94	81	0
P.A.G. 415.....	90.7	21.6	96	88	0
P.A.G. 418.....	101.0	21.1	91	95	0
P.A.G. 15009.....	104.4	20.0	97	78	.1
P.A.G. 15017.....	103.1	17.2	100	78	.1
Pioneer 302.....	88.1	21.3	87	93	0
Pioneer 309A.....	77.4	23.1	95	85	0
Pioneer 309B.....	74.0	25.2	82	87	.1
Pioneer 312A.....	66.3	21.6	95	88	0
Pioneer 316.....	92.5	21.6	98	92	1.9
Pioneer 319.....	97.8	20.7	95	87	5.1
Pioneer 4549.....	101.5	20.7	85	81	1.1
Pioneer 5625.....	85.2	20.6	97	89	3.8
Pioneer 5757.....	91.2	20.0	90	89	0
Pioneer 6117.....	75.7	20.0	96	80	0
Pocklington P-62.....	88.9	20.0	91	82	.6
Pocklington P-70.....	97.6	20.2	86	79	.7
Pocklington P-75A.....	82.0	21.7	83	85	.1
Pocklington P-78.....	101.0	21.9	92	69	.1
Pocklington P-78A.....	90.2	22.0	91	73	.1
Schwenk S27B.....	100.1	19.1	98	88	.6
Steckley's Genetic Giant 12.....	101.2	20.9	94	78	.6
Tiemann T-72.....	97.9	22.4	89	82	1.6
Todd 635.....	92.5	21.2	92	78	.6
Troyer M3T.....	64.6	20.5	97	71	.1
Troyer M17T.....	80.2	21.4	96	87	0
U.S. 13 (Station).....	82.9	20.1	81	83	1.9
Van Horn V.H. 100.....	85.1	21.3	87	76	2.9
Van Horn V.H. 101.....	93.2	21.2	85	80	1.4
Van Horn V.H. 111.....	92.0	20.2	72	84	.1

^a Inadvertently omitted from test.

(Table is concluded on next page)

Table 13. — Increased Planting Rates — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
East-Central Illinois: Urbana — concluded					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Whisnand 830.....	91.5	20.3	91	76	.1
Whisnand 852.....	99.6	22.7	83	83	.1
Whisnand Exp. 850.....	112.6	21.4	79	83	.2
Average of all entries.....	89.2	21.0	90	84	.8
Number in range	Difference necessary for significance				
2.....	18.1	1.9	10	11	.8
3-5.....	20.2	2.1	11	12	.9
6-10.....	21.4	2.3	12	13	1.0
11-20.....	22.4	2.4	12	13	1.0
Over 20.....	22.7	2.4	12	14	1.1
WEST SOUTH-CENTRAL ILLINOIS: Greenfield — 20,000 plants per acre					
Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
Bear OK69.....	131.3	19.3	64	88	
Bear Unicorn X710.....	91.2	21.0	39	88	
DeKalb 633.....	110.4	19.1	61	87	
DeKalb 640.....	103.3	16.9	56	94	
DeKalb 650.....	94.7	17.1	45	83	
DeKalb 660A.....	99.2	19.2	53	87	
DeKalb 803A.....	95.3	20.7	35	87	
DeKalb 805.....	104.2	19.1	48	91	
DeKalb 810.....	108.8	18.6	46	93	
DeKalb 814.....	98.2	17.8	50	89	
DeKalb 854.....	77.9	18.8	38	82	
DeKalb 869.....	98.6	19.3	56	88	
DeKalb 898A.....	81.4	18.9	35	90	
DeKalb 925(W).....	92.8	20.8	50	89	
Doubet D413.....	107.4	19.3	62	87	
Doubet D435.....	69.6	18.0	42	93	
Illinois 1332 (Station).....	116.3	16.9	52	85	
Illinois 1421 (Station).....	104.1	19.6	44	86	
Illinois 1893 (Station).....	108.3	17.8	45	90	
Illinois 1996 (Station).....	96.7	18.0	41	89	
Illinois (Hy2xOh7).....	102.8	18.6	25	89	
Illinois (WF9xC103).....	73.3	16.1	77	94	
Moews 523.....	105.1	18.2	67	89	
Moews 525.....	103.2	19.2	72	85	
Moews CB60A.....	105.3	19.3	67	95	
Moews CB69A.....	109.6	18.7	78	96	
Moews CB96A.....	109.7	16.1	64	90	
P.A.G. 415.....	103.0	18.5	61	89	
P.A.G. 418.....	91.8	20.1	44	87	
P.A.G. 444.....	95.8	21.6	54	87	
Pioneer 301B.....	97.4	18.7	59	85	
Pioneer 302.....	99.0	22.2	54	90	
Pioneer 309B.....	113.7	23.7	59	94	
Pioneer 316.....	96.8	18.4	44	86	
Pioneer 319.....	114.5	18.4	56	82	
Pioneer 4549.....	123.6	19.5	59	89	
Pioneer 5625.....	77.1	20.9	55	73	
Pioneer 5757.....	98.7	18.9	75	89	
Pioneer 6117.....	96.9	19.3	67	83	
Pocklington P-62.....	94.3	18.5	52	87	
Pocklington P-70.....	86.6	18.3	59	87	
Pocklington P-75A.....	93.4	19.0	47	86	
Pocklington P-78.....	98.3	19.6	68	83	
Pocklington P-78A.....	109.7	19.9	64	86	
Pocklington P-84.....	105.7	22.6	51	84	
Whisnand 830.....	104.2	18.5	64	82	
Whisnand 852.....	96.4	19.7	50	87	
Whisnand Exp. 850.....	109.5	20.0	48	82	
Average of all entries.....	100.5	19.2	54	88	
Number in range	Difference necessary for significance				
2.....	23.4	1.3	23	11	
3-5.....	26.0	1.4	25	12	
6-10.....	27.6	1.5	27	13	
11-20.....	28.8	1.6	28	13	
Over 20.....	28.9	1.6	28	13	

Table 14. — DWARF HYBRIDS: 1959 Results

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped ears
NORTHERN ILLINOIS: DeKalb					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb (D3xE).....	100.4	26.5	100	97	
DeKalb (D4xA).....	79.4	25.9	100	90	
DeKalb (D4xB).....	78.3	27.0	100	94	
DeKalb (D4xC).....	90.1	26.8	99	92	
DeKalb (D4xD).....	83.1	26.8	100	95	
Eastern States Dwarf 602.....	90.7	24.6	100	91	
Illidwarf 506A (Station).....	85.4	26.3	100	93	
Illidwarf 513 (Station).....	99.2	23.8	95	95	
Illidwarf Exp. 59-023 (Station).....	100.3	23.9	99	96	
Illidwarf Exp. 59-025 (Station).....	90.4	23.2	100	87	
Illidwarf Exp. 59-027 (Station).....	92.3	23.7	100	89	
Illidwarf Exp. 59-028 (Station).....	98.1	23.5	99	88	
Illidwarf Exp. 59-030 (Station).....	92.6	23.8	100	92	
Illidwarf Exp. 59-031 (Station).....	93.2	24.7	100	92	
Illidwarf Exp. 59-032 (Station).....	91.2	23.7	99	95	
Illidwarf Exp. 59-059 (Station).....	92.0	26.0	100	82	
P.A.G. Exp. 12030.....	100.0	22.6	100	93	
P.A.G. Exp. 12058.....	94.9	23.5	99	93	
P.A.G. Exp. 12073.....	92.8	22.7	100	96	
P.A.G. Exp. 12079.....	87.6	22.9	100	95	
Pocklington P.D. 6.....	84.9	24.9	100	89	
Pocklington P.D. 7.....	90.6	24.3	100	100	
Pocklington (1x7).....	77.7	25.8	100	95	
Pocklington (9x1).....	70.1	23.3	100	94	
Pocklington (9x8).....	107.8	24.1	100	91	
Average of all entries.....	90.5	24.5	100	93	
Number in range	Difference necessary for significance				
2.....	25.0	2.8	3	12	
3-5.....	27.6	3.0	4	14	
6-10.....	29.0	3.2	4	14	
10-25.....	29.8	3.3	4	15	
EAST-CENTRAL ILLINOIS: Urbana					
Bear Cub 66.....	76.4	23.8	100	94	.9
Bear Unicorn Cub.....	94.8	26.9	99	95	0
DeKalb (D3xE).....	54.0	24.8	100	89	0
DeKalb (D4xA).....	51.8	24.6	100	88	0
DeKalb (D4xB).....	51.2	23.4	100	89	0
DeKalb (D4xC).....	58.3	25.2	99	90	0
DeKalb (D4xD).....	52.4	23.8	100	84	1.0
Eastern States Dwarf 602.....	71.2	22.3	99	91	.8
Illidwarf (R906xR917) (Station).....	84.7	25.6	99	83	0
Illidwarf 500 (Station).....	89.2	22.4	92	88	0
Illidwarf 501A (Station).....	79.9	23.8	96	92	0
Illidwarf 505A (Station).....	74.4	22.0	100	85	1.0
Illidwarf 506A (Station).....	77.6	24.5	100	93	2.8
Illidwarf 510 (Station).....	66.9	23.7	100	98	0
Illidwarf 513 (Station).....	80.4	22.3	99	89	2.9
Illidwarf Exp. 6374 (Station).....	64.5	24.3	99	89	0
P.A.G. Exp. 12030.....	86.3	19.9	99	89	1.9
P.A.G. Exp. 12035.....	52.8	23.4	100	94	0
P.A.G. Exp. 12036.....	86.2	22.0	100	97	0
P.A.G. Exp. 12060.....	67.4	22.6	100	95	0
Pocklington P.D. 6.....	78.4	24.1	100	86	0
Pocklington P.D. 7.....	63.2	24.6	100	90	.9
Pocklington (1x7).....	92.5	24.5	99	91	0
Pocklington (9x1).....	94.9	22.6	99	84	1.0
Pocklington (9x8).....	69.4	22.9	97	86	1.0
Average of all entries.....	70.7	24.0	99	90	.6
Number in range	Difference necessary for significance				
2.....	19.1	2.7	5	12	2.7
3-5.....	21.0	3.0	5	14	2.9
6-10.....	22.1	3.1	6	14	N.S.
10-25.....	22.6	3.2	6	15	N.S.

Note: "N.S." indicates that differences are not great enough to be statistically significant.

(Table is concluded on next page)

Table 14. — Dwarf Hybrids — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand	Dropped Ears
WEST SOUTH-CENTRAL ILLINOIS: Greenfield					
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Bear Cub 66.....	83.9	18.8	90	91	
Bear Unicorn Cub.....	93.3	22.0	96	96	
DeKalb (D3xE).....	46.1	20.8	98	100	
DeKalb (D4xA).....	36.2	19.8	93	93	
DeKalb (D4xB).....	42.4	19.5	89	99	
DeKalb (D4xC).....	50.8	20.1	91	96	
DeKalb (D4xD).....	63.6	19.2	95	99	
Illidwarf (R906xR917) (Station).....	53.4	18.2	60	87	
Illidwarf 500 (Station).....	63.4	18.1	84	96	
Illidwarf 501A (Station).....	64.4	18.6	89	91	
Illidwarf 505A (Station).....	81.7	18.6	94	93	
Illidwarf 506A (Station).....	71.7	19.4	91	97	
Illidwarf 510 (Station).....	74.6	19.1	87	94	
Illidwarf 513 (Station).....	74.7	17.2	94	99	
Illidwarf Exp. 6374 (Station).....	57.6	18.5	82	96	
Illidwarf Exp. 6417 (Station).....	60.8	21.2	85	86	
P.A.G. Exp. 12034.....	76.4	21.6	85	97	
P.A.G. Exp. 12064.....	99.9	19.7	79	96	
P.A.G. Exp. 12065.....	79.1	19.2	93	99	
P.A.G. Exp. 12084.....	70.7	20.5	79	93	
Pocklington P.D. 6.....	73.7	19.9	85	92	
Pocklington P.D. 7 (Station).....	74.7	19.3	87	90	
Pocklington (1x7).....	87.1	20.1	86	94	
Pocklington (9x1).....	73.2	17.0	89	93	
Pocklington (9x8).....	65.9	17.2	94	94	
Average of all entries.....	69.2	19.3	88	94	
Number in range	Difference necessary for significance				
2.....	23.7	1.8	16	14	
3-5.....	26.2	2.0	18	15	
6-10.....	27.5	2.1	19	16	
11-25.....	28.1	2.1	20	16	
SOUTHERN ILLINOIS: Brownstown					
Bear Cub 66.....	63.9	23.7	100	96	3.5
Bear Unicorn Cub.....	69.2	26.2	100	94	0
DeKalb (D3xE).....	64.0	25.7	100	94	2.3
DeKalb (D4xA).....	52.3	25.6	99	100	1.1
DeKalb (D4xB).....	59.5	24.9	100	88	4.9
DeKalb (D4xC).....	60.0	25.6	100	94	0
DeKalb (D4xD).....	65.0	26.3	100	98	2.3
Illidwarf (R906xR917) (Station).....	79.3	24.0	100	92	0
Illidwarf 500 (Station).....	73.3	22.1	98	95	0
Illidwarf 501A (Station).....	71.6	22.2	98	92	0
Illidwarf 505A (Station).....	65.5	25.3	99	95	1.2
Illidwarf 506A (Station).....	81.4	23.9	100	97	0
Illidwarf 510 (Station).....	57.9	22.0	98	89	0
Illidwarf 513 (Station).....	76.0	20.8	98	95	0
Illidwarf Exp. 3417 (Station).....	69.0	24.0	99	99	0
Illidwarf Exp. 6374 (Station).....	63.2	23.7	98	87	0
Illidwarf Exp. 6417 (Station).....	65.1	25.9	100	93	0
Illidwarf Exp. 371 (Station).....	71.3	25.3	100	100	0
Illidwarf Exp. 471 (Station).....	73.0	26.0	100	95	1.1
P.A.G. Exp. 12034.....	77.9	27.4	99	97	1.1
P.A.G. Exp. 12042.....	49.0	20.8	100	95	0
P.A.G. Exp. 12083.....	76.9	25.2	98	100	0
P.A.G. Exp. 12084.....	85.0	25.1	98	99	1.1
Pocklington P.D. 6.....	67.4	24.3	100	90	1.3
Pocklington P.D. 7.....	65.0	23.6	100	100	1.1
Average of all entries.....	68.1	24.4	99	95	.8
Number in range	Difference necessary for significance				
2.....	22.7	2.8	N.S.	12	.7
3-5.....	25.0	3.1	N.S.	13	.7
6-10.....	26.2	3.3	N.S.	14	.8
10-25.....	27.0	3.4	N.S.	14	.8

Note: "N.S." indicates that differences are not great enough to be statistically significant.

SUMMARY

In 1959, 523 hybrids were grown in seventeen tests on ten test fields in Illinois. Yields were generally excellent, although lower than usual at Ashkum, Urbana, and Wolf Lake. Machine harvesting was successfully employed in all tests, and yields reported in this bulletin may be considered representative of actual farming conditions in the respective locations.

1959 yields. As was true in 1958, the Galesburg test field in west north-central Illinois had the highest average yield, 112.8 bushels per acre of machine-harvested shelled corn. This was closely followed by the Stanford test field, with a yield of 112.6 bushels per acre. Average yields of "normal" hybrids at normal planting rates on the other test fields were: Woodstock 103.0, DeKalb 106.5, Ashkum 89.1, Bowen 90.2, Urbana 101.7, Greenfield 94.7, Brownstown 81.7, and Wolf Lake 84.0.

The average yield of all normal hybrids tested at normal planting rates was 97.6 bushels per acre. This compares very favorably with previous *hand-harvested* average yields on these same test fields, which were 101.7 bushels per acre in 1957 and 101.4 bushels per acre in 1958.

Moisture. Grain moisture at harvest was at a satisfactory level at all test locations. The average moisture percentage of all entries ranged from 19.0 percent at Greenfield to 23.8 percent at DeKalb, Bowen, and Brownstown. Data on this characteristic were analyzed, and differences between hybrids were found to be statistically significant at all test locations.

Lodging. Lodging was moderate to light at seven of the ten test locations. More than 20 percent lodging was observed at Galesburg, 30 percent at Greenfield, and more than 55 percent at Woodstock. Differences between hybrids in lodging were found to be statistically significant at all test locations except Ashkum.

Stand. Stands were good to excellent at nine of the ten test locations. Uneven germination and seedling emergence resulted from planting in a wet seedbed at Ashkum, where the average final stand was 82 percent. In the normal planting rate tests, the average stand for all ten test locations was 90.3 percent. This was somewhat higher than the average stand in 1957 and 1958. Statistically significant differences between hybrids in stand percentage were found in the tests at DeKalb, Galesburg, Ashkum, Bowen, Urbana, and Greenfield.

Dropped ears. Ear droppage was higher than usual at several test locations. Data were recorded for this characteristic at DeKalb, Bowen, Stanford, Urbana, and Brownstown. A few hybrids showed rather severe amounts of ear droppage, but the average amount of dropped ears did not exceed 1.5 percent at any test location.

Leaf blight reaction. A severe epidemic of *Helminthosporium* leaf blight occurred in extreme southern Illinois. Reactions to this disease complex were recorded for the Wolf Lake test location. Scored on a scale from 1 (resistant) to 5 (completely susceptible), the hybrids included in this test showed mean ratings ranging from 1.3 to 4.0. Differences between hybrids for leaf blight reaction were found to be statistically highly significant.

Increased-plant-population tests. Separate tests were conducted of increased planting rates at DeKalb, Urbana, and Greenfield. Plant populations tested were 24,000 plants per acre at DeKalb and Urbana, and 20,000 plants per acre at Greenfield.

Direct comparisons cannot be made between average performance of hybrids in the "normal" and increased planting rate tests, since the same hybrids were not always included in both tests at a given location. In general, however, the increased planting rates at DeKalb and Urbana produced somewhat lower average yields and slightly higher lodging percentages than did the normal planting rates. At Greenfield the average yield at the increased rate was higher than the average yield at the normal planting rate, but lodging was much more severe at the higher plant population.

Dwarf hybrids. Dwarf hybrids of the *brachytic-2* type were tested at DeKalb, Urbana, Greenfield, and Brownstown. In general, yields of the dwarf hybrids were much lower than yields of normal hybrids at the same test locations. At each location, a few dwarf hybrids produced yields that compared very favorably with the average yield of the normal hybrids. Many dwarf hybrids produced very low yields of machine-harvested corn. These low yields resulted at least partly from very low ear placement in the dwarf hybrids, which caused excessive ear losses in the harvesting operation.

PEDIGREES OF 60 HYBRIDS

Following is a list of open-pedigree hybrids whose performance is shown in this bulletin:

Normal hybrids

AES 702... (WF9×Hy2)(C103×M14)	III. 1868..... (WF9×Hy2)(C103×Oh43)
AES 705... (WF9×B14)(C103×Oh43)	III. 1875..... (WF9×Hy2)(38-11×C103)
AES 805... (WF9×38-11)(C103×Oh45)	III. 1893..... (C103×38-11)(Oh7B×Oh29)
N.J. 8..... (WF9×Hy2)(C102×C103)	III. 1919..... (WF9×38-11)(R130×R156)
U.S. 13.... (WF9×38-11)(Hy2×L317)	III. 1921..... (WF9×38-11)(R71×R105)
III. 274-1... (WF9×Hy2)(Oh7×187-2)	III. 1936..... (WF9×Hy2)(M14×B14)
III. 972A-1. (WF9×Oh7)(Hy2×L317)	III. 1959..... (W64A×M14)(B14×A297)
III. 1277... (WF9×M14)(187-2×I.205)	III. 1960..... (W64A×M14)(B14×A545)
III. 1332... (WF9×38-11)(Hy2×Oh7)	III. 1992..... (WF9×Oh7A)(B14×C103)
III. 1349... (38-11×Mo940)(K155×K201)	III. 1996..... (Hy2×Oh7)(B14×C103)
III. 1421... (WF9×Hy2)(P8×Oh7)	III. 2214(W). (R30×Ky27)(H21×K64)
III. 1511... (WF9×Hy2)(38-11×L304A)	III. 3049..... (WF9×Hy2)(R71×R109B)
III. 1555A.. (WF9×Oh51A)(I.224×Oh28)	III. 3152.... (WF9×M14)(B14×Oh43)
III. 1570... (WF9×38-11)(Hy2×Oh41)	III. 3302A-1.. (W64A×M14)(B14×R172)
III. 1731A.. (WF9×C103)(Hy2×Oh7)	III. 3355..... (H49×H51)(R71×R109B)
III. 1813... (WF9×Hy2)(C103×Oh45)	III. 3360..... (H49×H51)(R101×Oh41)
III. 1851... (C103×38-11)(Oh7×CI.21E)	III. 3362..... (H49×H51)(CI.42A×Oh7)
III. 1857... (K201×CI.21E)(38-11×Oh41)	III. 6021..... (R75×R76)(R84×K4)
III. 1861... (WF9×M14)(I.224×Oh28)	III. 6052..... (R78×38-11)(R84×K4)
III. 1863... (WF9×M14)(I.205×Oh43)	III. Exp..... (WF9×B14)(Hy2×L.E. 2A)
III. 1864... (WF9×M14)(Oh43×W22)	

Dwarf hybrids

Illidwarf 500..... (R909×R938)(R904×R917)
Illidwarf 501A..... (R909×R906)(R902×R917)
Illidwarf 505A..... (R909×R901)(R902×R917)
Illidwarf 506A..... (R909×R901)(R938×R917)
Illidwarf 510..... (R906×R902)(R904×R917)
Illidwarf 513..... (R909×R938)(R902×R917)
Illidwarf Exp. 371..... (br2 CI.21E×R938)(R901×R917)
Illidwarf Exp. 471..... (br2 CI.21E×R904)(R901×R917)
Illidwarf Exp. 3417..... (br2 C103×R904)(R901×R917)
Illidwarf Exp. 6374..... (R906×R938)(R904×R917)
Illidwarf Exp. 6417..... (R906×R904)(R901×R917)
Illidwarf Exp. 59-023..... (R909×R914)(br2 Oh43×br2 Oh51A)
Illidwarf Exp. 59-025..... (R909×R914)(br2 Oh43×br2 W22)
Illidwarf Exp. 59-027..... (R909×R914)(br2 Oh51A×br2 Pa54)
Illidwarf Exp. 59-028..... (R909×R914)(br2 Pa54×br2 W22)
Illidwarf Exp. 59-030..... (R909×R902)(br2 Oh43×br2 W22)
Illidwarf Exp. 59-031..... (R909×R902)(br2 Pa54×br2 W22)
Illidwarf Exp. 59-032..... (R909×R902)(br2 Oh51A×br2 Pa54)
Illidwarf Exp. 59-059..... (R909×R901)(br2 Oh43×br2 Oh51A)

INDEX TO TABLES

Several of the tables are divided into two or more sections, and an entry may appear in several places in a table. Five-year or three-year summaries are shown first in each table, followed by the 1959 results for the particular test location. Hybrids are ranked according to their yield in the summaries, but are listed alphabetically in the 1959 results.

AES 702 (Monier).....	4, 5, 8	DeKalb 3x1.....	5, 7, 8, 9, 11
AES 705 (Station).....	9	DeKalb 3x2.....	6, 7
AES 805 (Station).....	7, 8, 9, 11	DeKalb 3x4.....	5, 7, 10, 11
AES 805 (Stone).....	9	DeKalb 82-013.....	11
Ainsworth Goldline 378.....	11	DeKalb 82-019.....	11
Ainsworth X-14-A.....	10, 12	DeKalb 221.....	13
Ainsworth X-14-3.....	7, 8, 9, 11	DeKalb 222.....	3
Ainsworth X-97.....	5, 6	DeKalb 251.....	3, 13
Ainsworth X-98.....	5, 6, 7, 8, 9, 10, 11	DeKalb 253.....	3, 13
Ainsworth X-100.....	5, 6, 7, 8, 9, 10, 11, 12	DeKalb 400.....	3, 13
Appl A-130.....	5, 8, 9	DeKalb 406.....	3
Appl A-159.....	9	DeKalb 409.....	3
Appl A-259.....	5	DeKalb 411.....	3, 4, 13
Appl A-400.....	8, 9	DeKalb 414.....	3, 4, 13
		DeKalb 423.....	3, 4, 13
Bear Cub 66.....	14	DeKalb 440.....	3, 13
Bear OK24.....	8	DeKalb 444.....	3, 4, 13
Bear OK33.....	5, 6	DeKalb 459.....	4
Bear OK55.....	6, 9	DeKalb 632.....	6
Bear OK69.....	7, 9, 11, 13	DeKalb 633.....	4, 5, 6, 7, 8, 9, 10, 13
Bear OK93.....	10	DeKalb 640.....	4, 5, 6, 7, 8, 9, 10, 13
Bear OK96.....	6, 9, 10	DeKalb 650.....	13
Bear OK96A.....	5, 6, 7, 8, 9, 11	DeKalb 660A.....	6, 7, 8, 9, 10, 11, 13
Bear OK878.....	5, 7, 8, 9, 10, 11	DeKalb 661.....	5
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Bear Unicorn X600.....	5, 6, 7, 8, 9, 10, 11	DeKalb 803A.....	5, 6, 7, 8, 9, 10, 11, 13
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Canterbury 420.....	7, 8, 9, 10, 11	DeKalb 820.....	5
Cargill 180.....	3	DeKalb 837.....	5, 6, 8, 9
Cargill 255.....	3	DeKalb 854.....	6, 7, 8, 9, 10, 11, 12, 13
Cargill 256.....	4	DeKalb 856.....	11, 12
Cargill 259.....	4	DeKalb 869.....	6, 8, 9, 10, 11, 12, 13
Cargill 270.....	4, 5	DeKalb 898A.....	12, 13
Cargill 285.....	6	DeKalb 925(W).....	10, 11, 12, 13
Cargill 310.....	5, 8, 11	DeKalb 1023.....	12
Cargill 320.....	10	DeKalb 1028.....	12
Cargill 330.....	6	DeKalb 4049.....	4
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Illinois 1731A (Station).....	13	Mountjoy M-55.....	13
Illinois 1813 (Pfeifer).....	9	Mountjoy M-66.....	4
Illinois 1813 (Station).....	8	Mountjoy M-100.....	8
Illinois 1851 (Station).....	11, 12, 13	Mountjoy M-103.....	11
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